
Prevention of Significant Deterioration Construction Permit Application Revised Submittal: July 2026

**Canadys Station
Colleton County, South Carolina**

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1 EXECUTIVE SUMMARY

Dominion Energy South Carolina, Inc. (DESC) and the South Carolina Public Service Authority (Santee Cooper) (together, the “Applicant”) plan to construct a new combined cycle power plant at the site of the former Canadys Steam Plant, located approximately 11 miles north of Walterboro, in an unincorporated part of Colleton County, South Carolina (Facility or Project). This new combined cycle power plant, Canadys Station, will be a new major stationary source with respect to the Prevention of Significant Deterioration (PSD) program under South Carolina Regulation (SC R.) 61-62.5, Standard (Std.) No. 7 and the Title V program under SC R. 61-62.70. Therefore, Applicant is submitting this application to request authorization from the South Carolina Department of Environmental Services (SCDES) to construct the Facility pursuant to SC R. 61-62.1, Section II(A) and SC R. 61-62.70.

South Carolina is among the fastest growing states in the nation, driven by domestic migration, affordability, economic development, and industry growth. The South Carolina Chamber of Commerce expects the state to add an additional one million residents within the next two decades.¹ As a result of this growth, DESC’s electrical demand is forecasted to increase 25% by 2044, a 1.4% compound annual growth rate. Similarly, forecasts project Santee Cooper’s electrical demand to increase approximately 35% by 2040, a compound annual growth rate of 1.7%. In 2025, Governor Henry McMaster signed the South Carolina Energy Security Act (Act 41) into law, which is aimed at improving the State’s ability to generate and deliver power as necessary to keep pace with this growth. A key component of this legislation was the authorization of joint ownership between DESC and Santee Cooper of the proposed Project at the former Canadys Steam Plant site.²

The location of the Project is advantageous, as the proposed Facility will be constructed at a brownfield power generation site, the location of the former Canadys Steam Plant. Legacy power generation assets associated with the former plant were retired in 2013 and have since been demolished and removed. Redeveloping and reusing the site will result in minimal disturbance as compared to a greenfield site. Additionally, the site offers robust electric transmission interconnectivity from rights of way that radiate from the site towards major load centers and is in close proximity to existing and planned Santee Cooper electric transmission lines. Therefore, the location of the site also reduces the environmental impacts associated with new transmission line construction that would likely occur as a result of constructing the Project at an alternative location.

Not only is the Project critical for meeting the growing energy demand in South Carolina, particularly in the South Carolina Lowcountry, but it is an important part of both DESC and Santee Cooper’s long-term integrated resource planning. Specifically, the Project will allow for continued reliable and affordable generation while also accommodating renewable and related resources (solar, battery, and hybrid solar/storage) and facilitating the eventual retirement of existing, older fossil-fired generating facilities.

The new combined cycle power plant will be designed as a baseload power generation station with an estimated net electrical output of approximately 2,200 megawatts (MW). The Project includes the installation of three (3), independent, advanced-class, multi-shaft, one-on-one (1x1) combined cycle combustion turbine (CCCT) power trains. Each power train will include a combustion turbine-generator

¹ 2025 Competitiveness Agenda. South Carolina Chamber of Commerce. <https://www.schamber.net/general/2025-competitiveness-agenda/>

² <https://governor.sc.gov/news/2025-06/gov-mcmaster-signs-legislation-secure-south-carolinas-energy-future>

(CTG), a heat recovery steam generator (HRSG) equipped with supplementary firing (duct burners), and a steam turbine-generator (STG), configured to operate in a combined cycle arrangement. The CTGs will achieve low nitrogen oxide (NO_x) emissions at the turbine exhaust via dry low NO_x (DLN) combustion systems. NO_x emissions will be further reduced via the use of selective catalytic reduction (SCR) systems, and oxidation catalysts will control emissions of carbon monoxide (CO) and volatile organic compounds (VOCs). The combustion turbines have been designated as Emission Units (EU) EU01, EU02, and EU03. Initial operation of the Project is anticipated to begin in 2032.

The combustion turbines will fire natural gas meeting pipeline quality specifications (natural gas) as a primary fuel and ultra-low sulfur No. 2 fuel or heating oil with a maximum sulfur content not exceeding 15 parts per million (ppm) (fuel oil)³ as a secondary fuel. Ancillary equipment planned for installation as part of the Project includes: one (1) natural gas-fired auxiliary boiler, three (3) diesel-fired emergency generators, two (2) diesel-fired emergency fire water pumps, four (4) natural gas-fired fuel gas heaters, sixty six (66) sulfur hexafluoride (SF₆) high-voltage circuit breakers, two (2) three-million gallon aboveground storage tanks (ASTs) for fuel oil, six (6) inlet chiller cooling towers, three (3) delugable air-cooled heat exchangers (hybrid dry/wet cooling towers), and two (2) 40,000-gallon ASTs storing 19% aqueous ammonia to support the SCR system.

PSD permitting is required for a new major stationary source when potential emissions of any regulated New Source Review (NSR) pollutant exceed the applicable PSD permitting threshold of either 250 tons per year (tons/year) or 100 tons/year. As a fossil fuel-fired steam electric plant with a heat input greater than 250 million British thermal units per hour (MMBtu/hr), the Facility is one of the 28 listed categories under SC R. 61-62.5, Std. §7(B)(32)(a)(i). As such, the appropriate PSD permitting threshold is 100 tons/year.

Emission calculations demonstrate that Facility-wide potential emissions will exceed 100 tons/year for multiple regulated NSR pollutants. As a result, the Project will trigger PSD review for particulate matter (PM), PM with an aerodynamic diameter less than or equal to 10 microns in diameter (PM₁₀) and less than or equal to 2.5 microns in diameter (PM_{2.5}), NO_x, CO, VOCs, sulfur dioxides (SO₂), and sulfuric acid (H₂SO₄) mist as potential emissions of these pollutants exceed the PSD significant emission rates (SERs) codified at SC R. 61-62.5(B)(49)(a).

Since the Facility will be a new major stationary source of regulated NSR pollutants and greenhouse (GHG) emissions from the Facility will exceed 75,000 tons/year on a carbon dioxide (CO₂) equivalent (CO_{2e}) basis, GHGs are considered “subject to regulation” per SC R 61-62.5, Std. §7(B)(44) and trigger PSD review. If GHGs are no longer considered regulated NSR pollutants, then the Facility would no longer be subject to the GHG limits described herein, including those established pursuant to the best available technology (BACT) requirements of SC R 61-62.5, Std. §7(J)(2) and Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units under 40 CFR Part 60, Subparts TTTTa or TTTT.

³ The terms fuel oil, heating oil, and ultra low-sulfur diesel (ULSD) are used synonymously throughout this application.

2.1 FACILITY DESCRIPTION

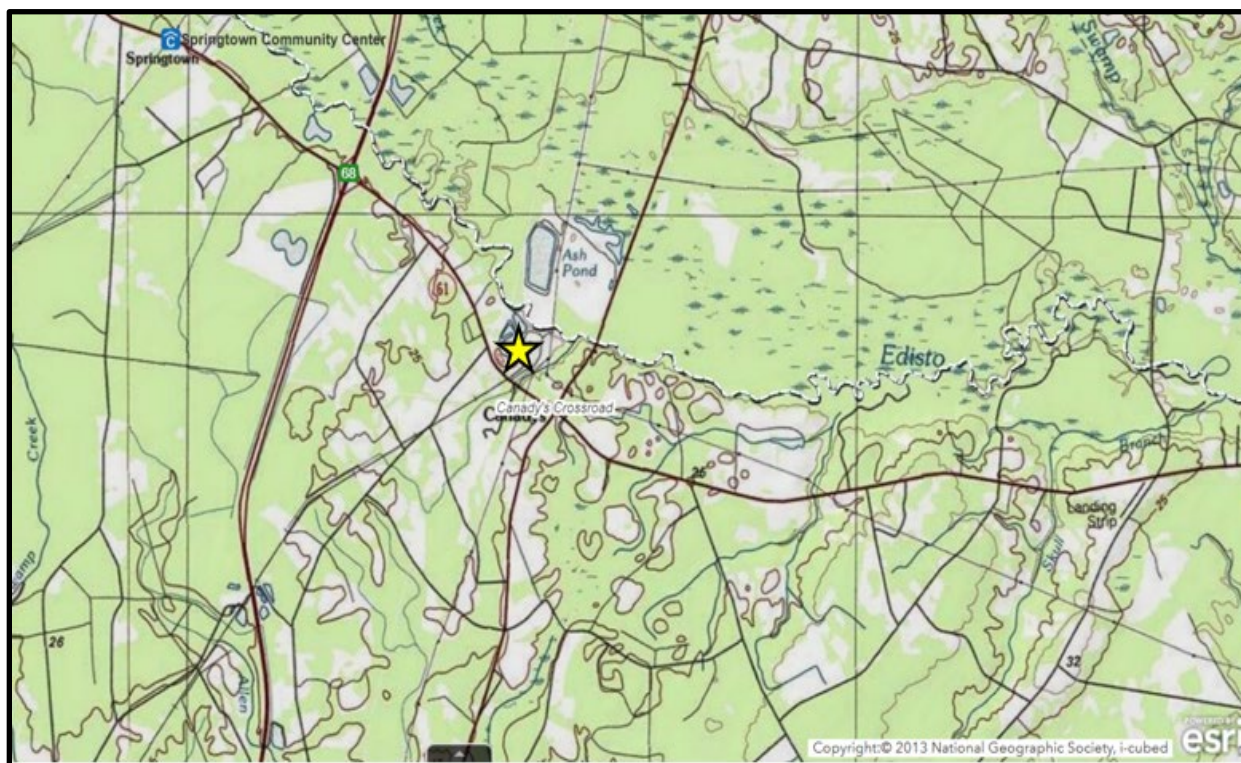
The Facility is located alongside the Edisto River near Canadys in an unincorporated part of Colleton County, South Carolina, approximately 11 miles north of the city of Walterboro, SC. The North American Datum of 1983 (NAD83) coordinates of the site are (approximately) 33° 03' 50.48'' N latitude and 80° 37' 27.22'' W longitude. Satellite imagery illustrating the general location of the Facility is depicted in Figure 2-1. A view of the surrounding topography is presented in Figure 2-2.

Figure 2-1 | General Facility Location⁴



⁴ Imagery from Google Earth accessed 7/28/2025. Imagery date 10/17/2024.

Figure 2-2 | Surrounding Topography⁵



Operations at the Facility fall under Standard Industrial Classification (SIC) code 4911 (*Electric Services*)⁶ and North American Industrial Classification System (NAICS) code 221112 (*Fossil Fuel Electric Power Generation*).⁷ The original Canadys Steam Plant opened in 1962, eventually employing three (3) coal-fired generating units until its retirement in 2013. Existing emission sources at the site are limited to two (2) small emergency generators that are exempt from air permitting requirements and are not being modified as a part of this Project.

The current CAA Section 107 attainment status designations for areas within the state of South Carolina are summarized in 40 CFR §81.341. Colleton County attains the National Ambient Air Quality Standards (NAAQS) for total suspended particulates (TSP, also referred to as PM, which includes PM₁₀), SO₂, CO, PM_{2.5}, lead, ozone, and nitrogen dioxide (NO₂).

⁵ Map accessed on 7/28/2025 via the Colleton County GIS Mapping resource located at the following link:
<https://colletoncounty.maps.arcgis.com/apps/webappviewer/index.html?id=dcd2d7443dc9448ea910b9788a2c6b05>

⁶ SIC Code 4911, *Electric Services*, includes establishments engaged in the generation, transmission, and/or distribution of electric energy for sale.

⁷ NAICS Code 221112, *Fossil Fuel Electric Power Generation*, includes establishments primarily engaged in operating fossil fuel powered electric power generation facilities. These facilities use fossil fuels, such as coal, oil, or gas, in internal combustion or combustion turbine conventional steam process to produce electric energy. The electric energy produced in these establishments is provided to electric power transmission systems or to electric power distribution systems.

2.2 PROJECT DESCRIPTION

Applicant is proposing to install three (3) independent, advanced-class, multi-shaft, one-on-one (1x1) combined cycle combustion turbine (CCCT) power trains. Each power train will consist of a CTG, a HRSG equipped with supplementary firing (duct burners), and an STG, configured to operate in a combined cycle arrangement. The combustion turbines will use natural gas as a primary fuel and fuel oil as a secondary fuel. Emissions from the new CCCT power trains will be controlled via SCR and oxidation catalyst systems. The combined cycle arrangement planned at the Facility will significantly increase overall plant efficiency by utilizing the energy content of the CTG exhaust for generating steam that is utilized in the STGs for additional generation of electric power.

Ancillary equipment to be installed as part of the Project will include an auxiliary boiler, diesel-fired emergency generators, diesel-fired emergency fire water pump engines, natural gas-fired fuel gas heaters, SF₆ high voltage circuit breakers, fuel oil storage tanks, aqueous ammonia storage tanks, inlet chiller cooling towers, delugable air-cooled heat exchangers, and fugitive emission components (valves, flanges, etc.).

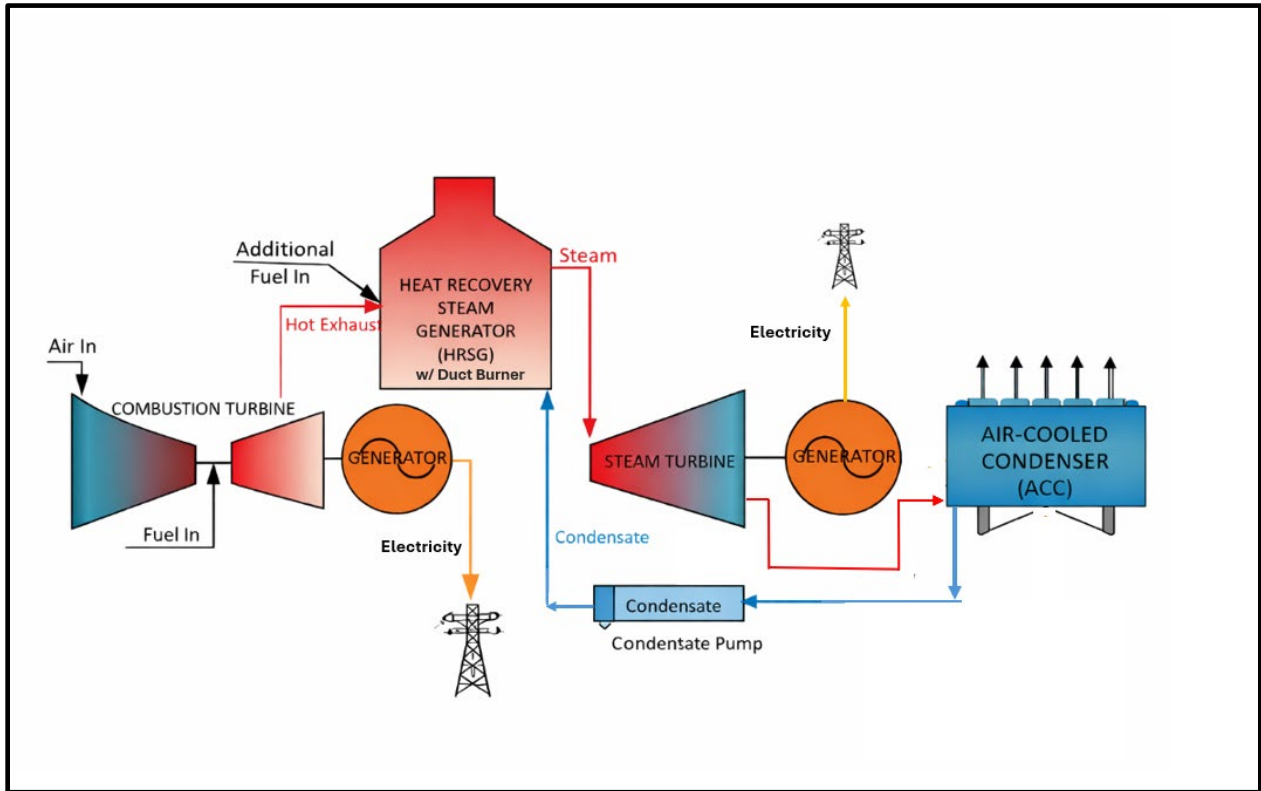
Project-specific emission units are summarized in Table 2-1.

Table 2-1 | Project-Wide Emission Units

Emission Unit ID	Equipment ID	Description	Control Device ID
Project-Specific Equipment			
CCCTs			
EU01 EU02 EU03	CTG1, DB1 CTG2, DB2 CTG3, DB3	Three (3) combined cycle combustion turbine power trains, each power train consisting of an advance-class, dual fuel (natural gas and fuel oil), frame-type combustion turbine generator (CTG), a heat recovery steam generator (HRSG) with natural gas-fired supplementary firing (duct burner – “DB”) CTG1, CTG2, CTG3: each nominally rated heat input of ~4,115 MMBtu/hr when firing natural gas and ~3,495 MMBtu/hr when firing fuel oil at ISO conditions (<i>i.e.</i>, 59 °F ambient temperature) DB1, DB2, DB3: each nominally rated heat input of ~851.5 MMBtu/hr firing natural gas at ISO conditions (<i>i.e.</i>, 59 °F ambient temperature)	SCR01, 02, 03 OXCAT01, 02, 03 WIN01, 02, 03
Ancillary Equipment			
EU05	AB01	One (1) Natural Gas-Fired Auxiliary Boiler (~99.8 MMBtu/hr)	N/A
EU06 EU07 EU08	EG01 EG02 EG03	Three (3) Diesel-Fired Emergency Generators (~2,500 kWe each)	N/A
EU09A EU09B	FP01 FP02	Two (2) Diesel-Fired Fire Water Pump Engines (~315 bhp each)	N/A
EU10	FUGNG	Natural Gas Fuel System Piping Components	N/A
EU11 EU12 EU13	EGBT01 EGBT02 EGBT03	Three (3) Generator Belly Tanks (~4,000 gallons each)	N/A
EU14A EU14B	FPBT01 FPBT02	Two (2) Fire Water Pump Belly Tanks (~300 gallons each)	N/A
EU15 EU16	AST1 AST2	Two (2) Fuel Oil Storage Tanks (~3,000,000 gallons each)	N/A
EU17	FUGSF6	Sixty-Six (66) SF ₆ Circuit Breakers	N/A
EU18 EU19 EU20	HT01 HT02 HT03	Three (3) Natural Gas-Fired Fuel Gas Heaters (~20 MMBtu/hr each)	N/A
EU21	HT04	One (1) Natural Gas-Fired Low Pressure Fuel Gas Heater (~3 MMBTU/hr)	N/A
EU24	CT01-CT06	Six (6) inlet chiller cooling towers	NA
EU25	CS01-CS03	Three (3) delugable air-cooled heat exchangers	NA

Operation of the equipment proposed for installation as a part of this Project is described in the following sections. A generalized process flow diagram depicting the general operations of a single power train of the combined cycle power plant equipment is provided as Figure 3-1.

Figure 3-1 | Generalized Process Flow Diagram



3.1 COMBINED CYCLE POWER TRAINS

The Facility will employ a 1x1 multi-shaft combined cycle configuration. Each of the three CCCT power trains will include one (1) combustion turbine-generator, one (1) HRSG, and one (1) steam turbine-generator.

3.1.1 Combustion Turbines

The Facility plans to install three (3) combustion turbines, which have been designated as EU01, EU02, and EU03. The combustion turbine technology will be advanced-class, frame-type, air-cooled type units. Frame-type combustion turbines are built with a heavy-duty frame that are optimized for stationary, continuous-duty applications such as electric power generation. Additionally, frame-type turbines are capable of high-power outputs, typically in the range of 25 MW up to several hundred MWs, and utilize lower rotational speeds, as compared to aeroderivative-type combustion turbines.

The combustion turbine consists of an inlet air system, a compressor section, a combustor section, and a power turbine section. Ambient air is drawn into the compressor section of the combustion turbine, mixed

with fuel, and fired in the combustor section to produce high-temperature, high-pressure combustion gases. Expansion of these gases across the power turbine section turns the shaft of the combustion turbine, which drives a generator to produce electricity. The direct coupling of the combustion turbine to an electric generator provides the first stage of power production. The combustion turbines will fire natural gas as a primary fuel and fuel oil as a secondary fuel.

3.1.2 Heat Recovery Steam Generators

Instead of venting the hot exhaust gases from the combustion turbine to the atmosphere, they will be routed to the HRSG. The HRSGs are responsible for capturing thermal energy within the hot exhaust gases exiting the combustion turbine. As the combustion turbine exhaust enters the HRSG, these hot gases pass over a series of heat exchanger tubes specifically arranged to efficiently transfer the heat from the combustion gases to feedwater and/or condensate.

The HRSG generally consists of three main sections: economizer, evaporator, and superheater sections. Water (condensate) flows through the economizer, where it is preheated using lower-temperature exhaust gases. It then enters the evaporator section, where the heat from the exhaust gases causes the water to boil and change phase into saturated steam. Saturated steam is routed through superheater sections, where it is further heated to reach the desired steam temperature and pressure required for efficient operation of the steam turbine. The resulting high-pressure, superheated steam is directed to the steam turbine, where it expands and drives another electric generator, producing additional electricity. The cooled exhaust gases exit the HRSG stack at much lower temperatures, typically around 175–300°F,⁸ minimizing waste heat and improving overall plant efficiency.

The HRSGs will each be equipped with supplementary firing (duct burners) to allow for increased steam production. The HRSG and steam turbine cycle include high-pressure, intermediate-pressure, and low-pressure steam systems to optimize thermodynamic performance, allowing the plant to provide efficient, reliable baseload power generation.

3.1.3 Emissions Control

Each proposed combustion turbine will be equipped with DLN burners and each CCCT power train will be equipped with SCR systems for NO_x emissions reduction and oxidation catalysts for reduction of CO and VOC emissions. By mixing the fuel and air prior to combustion, DLN burners provide uniform combustion temperatures which reduces NO_x formation. SCR systems utilize ammonia as a reagent in the presence of a catalyst to convert NO_x to nitrogen (N₂) and water. When firing fuel oil, water injection in the combustion turbine will also be used to minimize NO_x emissions from the combustion turbines. Oxidation catalysts utilize excess air present in the turbine exhaust to oxidize CO and VOCs into CO₂, with the catalyst providing for a reduction in the activation energy required for this reaction to take place.

3.1.4 Simple Cycle Mode

Under certain limited and infrequent conditions, the Facility may operate one or more power trains in simple cycle mode. In this configuration, the CTG generates electricity independently, and the associated steam

⁸ Exhaust temperatures vary by operating scenario. Typical exhaust temperatures are ~175 – 200 °F for natural gas firing and ~300 – 310 °F for fuel oil firing.

turbine is not in operation generating electricity. Simple cycle operation may occur during periods of startup, shutdown, maintenance of downstream equipment (e.g., HRSG or steam turbine), or in response to grid reliability needs due to fluctuating electricity demand and integration of renewable energy.

Simple cycle operation is anticipated to be intermittent and limited in duration relative to overall Facility operations. During simple cycle operation, the combustion turbine fires the same fuels using the same combustion technology and control systems described for normal combined cycle operation. Combustion parameters, firing rates, and applicable emission controls will remain consistent with the design and operational limits evaluated elsewhere in this application.

3.1.5 Alternate Operating Scenarios

In addition to normal baseload and load-following operations, the Facility's CCCT power trains may operate under limited alternate operating scenarios, including online combustion turbine compressor water washing, combustion system tuning, and online fuel transfers. These operating scenarios are infrequent, limited in duration, and ancillary to normal operation of the CCCTs. Emissions associated with these scenarios are inherently captured within, or conservatively bounded by, the Facility's maximum potential emissions as discussed elsewhere in this application. Therefore, separate emission calculations for these activities are not required.

Online Water Washing (Combustion Turbine Compressor Cleaning)

The Facility's combustion turbines may periodically undergo online water washing (compressor cleaning) to remove fouling from compressor blades to maintain thermal efficiency and performance. During an online water wash, demineralized water is injected into the compressor inlet air stream while the combustion turbine remains in operation at reduced load. The procedure is typically of short duration and performed in accordance with the combustion turbine manufacturer's specifications.

Online water wash activities do not involve additional fuel types, changes in combustion technology, or modification of installed air pollution control systems. Rather, the activity temporarily reduces load and may result in marginal, short-term changes in efficiency (heat rate) during the short time period when the compressor is cleaned.

Combustion System Tuning Activities

The Facility's combustion turbines will undergo periodic combustion tuning activities in accordance with manufacturer recommendations and good engineering practice to maximize design combustion efficiency levels and operational reliability. Tuning activities may include, but are not limited to, inspection and adjustment of combustion system components, verification and calibration of fuel and air control systems, adjustment of combustion parameters (e.g., fuel-to-air ratio), and minor operational checks conducted at varying load levels. These tuning activities are conducted while the combustion turbines are operating within their normal design envelope and do not involve the use of alternate fuels, modifications to the combustion process, or changes to installed emission control technologies. These activities are typically of short duration and are performed intermittently as part of routine maintenance.

During tuning activities, temporary adjustments to combustion parameters may occur to optimize performance; however, such adjustments are made within manufacturer-specified limits and are intended to improve combustion efficiency and emissions performance over the long term.

Online Fuel Transfers

The Facility may conduct online fuel transfer operations in which a combustion turbine transitions between fuels (i.e., natural gas to fuel oil or fuel oil to natural gas) while remaining in operation. These activities may be performed for operational flexibility, fuel supply management, or periodic testing of the secondary fuel system for reliability purposes.

During an online fuel transfer, the CTG control system gradually adjusts fuel flows to transition from one fuel to the other in a controlled manner. This process is designed to maintain stable combustion conditions and normal operation within manufacturer-specified limits. The combustion turbines will continue to operate within its established design envelope, and no modifications to the combustion process or installed emission control systems are required. Emission controls will remain in service consistent with normal operation. Online fuel transfer events are expected to be infrequent and of short duration.

3.2 AUXILIARY BOILER

The Facility will include one (1) natural gas-fired auxiliary boiler nominally rated at 99.8 MMBtu/hr to support startup, shutdown, and low-load operations of the CCCTs. The auxiliary boiler will provide the steam necessary to establish and maintain proper HRSG and STG operating conditions when the combustion turbines are not yet producing sufficient exhaust energy, such as during initial steam turbine warm-up, turbine roll, and synchronization. It also supplies steam for critical plant needs including equipment preheating, condenser vacuum maintenance, freeze protection, and general plant services when steam is not otherwise available from operating CCCT power trains. The auxiliary boiler will fire pipeline-quality natural gas to produce reliable, low-emission operation and will operate intermittently based on system demand, primarily during CCCT power train startup cycles. The boiler will be equipped with a low-NOx burner for reduced NOx emissions. The auxiliary boiler has been designated as EU05.

Following commissioning of the CCCT power trains, the auxiliary boiler will be limited to no more than 2,000 hours/year of operation and an annual heat-input based capacity factor of 10%. Because the auxiliary boiler will need to operate at higher loads, and for longer durations, during initial commissioning of the CCCT power trains, these limits exclude periods of initial CCCT power train commissioning.

3.3 FUEL GAS SYSTEM

The combustion turbine manufacturer requires that the fuel gas supply to the unit meet specific minimum pressure and temperature conditions. The pressure from the pipeline supply will be sufficient to meet these requirements. As such, the installation of on-site fuel gas compression equipment will not be needed. However, the Facility will employ three (3) natural gas-fired fuel gas heaters each nominally rated at 20 MMBtu/hr and one (1) low pressure, natural gas-fired, fuel gas heater nominally rated at 3 MMBtu/hr to ensure adequate fuel gas temperature entering the CCCT process. The fuel gas system will also comprise piping components (valves, flanges, etc.) that have the potential to be sources of fugitive emissions of natural gas. The natural gas fuel system piping components are designated as EU10. The four (4) fuel gas heaters are designated as EU18, EU19, EU20, and EU21.

3.4 EMERGENCY GENERATORS

The Project includes the installation of three (3) diesel-fired emergency generators, each with a nominally rated generator capacity of 2,500 kilowatts (kWe). The generators will be used to provide reliable backup

electrical power in the event of a loss of utility power or failure of the onsite electrical distribution system. These generators supply critical loads required to safely shutdown and maintain essential plant systems, including but not limited to control equipment, lube oil and cooling systems, and emergency lighting. The emergency generators are designed for infrequent operation and will operate only during emergency conditions, periodic testing, and manufacturer-recommended maintenance activities. The units will use ultra-low sulfur diesel (ULSD) fuel⁹ for compliance with applicable emission standards and to minimize sulfur dioxide (SO₂) and PM emissions. The emergency generators are designated as EU06, EU07, and EU08. Each generator will be equipped with a 4,000-gallon belly tank identified as EU11, EU12, and EU13, respectively.

Currently, the specific engine (make/model) to be installed as a part of this Project has not been finalized. Specifications for a ~2,500 kW_e generator driven by a Caterpillar 3516C unit, certified to applicable Environmental Protection Agency (EPA) standards, have been used as a surrogate for the purposes of this application. Applicant will install emergency generators with emissions specifications equivalent to, or better than, the surrogate unit.

3.5 FIRE WATER PUMP ENGINES

The Project will include the installation of two (2) diesel-fired emergency fire water pump engines, each with a rated capacity of ~315 brake horsepower (bhp), to provide immediate and dependable water pressure for the plant's fire protection system. The fire water pumps are critical safety devices that activate automatically in the event of a fire or rapid pressure drop in the fire suppression network. Operation is expected to be limited and intermittent, occurring only during emergency events and scheduled system testing to verify performance and readiness. Similar to the emergency generators, the fire pump engines will be fueled by ULSD to maintain low emissions during operation. The two (2) diesel-fired fire water pump engines are designated as EU09A and EU09B. Each fire water pump engine will be equipped with a 300-gallon belly tank identified as EU14A and EU14B, respectively.

Currently, the fire pump's specific engine (make/model) to be installed as a part of this Project has not been finalized. Engine specifications for a 315 bhp Clarke JU6H-UFAD98 unit, certified to applicable EPA standards, have been used as a surrogate for the purposes of this application. Applicant will install fire pump engines with emissions specifications equivalent to, or better than, the surrogate unit.

3.6 SULFUR HEXAFLUORIDE CIRCUIT BREAKERS

The Facility will employ sixty-six (66) SF₆ circuit breakers within the electrical switchyard to provide high-voltage protection and reliable interruption of electrical faults. SF₆ is a nonflammable, inert insulating gas with exceptional dielectric strength, making it well suited for high-voltage equipment and compact breaker designs. The circuit breakers remain sealed under normal operating conditions, and SF₆ emissions are expected to be minimal, limited primarily to very low fugitive releases from valves, seals, or during maintenance activities. SF₆ handling procedures will comply with manufacturer specifications and applicable environmental requirements to minimize leakage and provide proper gas recovery and recycling. Routine inspections and maintenance will be conducted to verify system integrity and maintain safe, reliable electrical operation of the plant. The SF₆ circuit breakers are designated as EU17.

⁹ ULSD is fuel oil with a sulfur content equal to or less than 0.0015% by weight as specified in 40 CFR §1090.305(b).

3.7 FUEL OIL STORAGE TANKS

To ensure adequate secondary fuel supplies for the proposed combustion turbines, the Project will include the installation of two (2) 3,000,000-gallon fuel oil storage tanks (EU15 and EU16). Each emergency generator will be equipped with an approximately 4,000-gallon belly tank (EU11, EU12, and EU13). Each emergency fire water pump will be equipped with an approximately 300-gallon belly tank (EU 14A and EU14B).

3.8 INLET CHILLERS

The Project will include a total of six (6) inlet chillers (EU24) to support the CTs. The inlet chillers are wet, mechanical draft cooling towers that are associated with the inlet air cooling systems of the CTs to increase turbine power output and energy efficiency, particularly in hot weather, by increasing the density of the air entering turbine compressors. Each inlet chiller will have a bank of four (4) cells equipped with a high-efficiency drift eliminator (0.0005%) to minimize liquid drift and control particulate matter emissions.

3.9 DELUGABLE AIR-COOLED HEAT EXCHANGERS

The Project will include three (3) delugable air-cooled heat exchangers (hybrid dry/wet cooling towers) (EU25), one for each power block. The units will mainly cool the lubricating oil for various auxiliary equipment. This hybrid cooling system operates primarily dry (air-cooled) but incorporates a deluge system during periods of exceptionally high ambient temperatures with water being captured for reuse in other plant processes. Each cooling tower is designed with multiple bays comprising a combination of dry bays and bays equipped with delugable water sprays. The systems will include forced-draft fans to provide air flow needed for equipment cooling. Emissions of particulate matter will result from the use of wet cells during water spraying/deluging operations. There are no emissions from the use of dry cells.

4 EMISSIONS CALCULATION METHODOLOGY

Emissions from the Project have been estimated as described in this section. Detailed emission calculations are provided in Appendix A and supporting documentation is provided in Appendix B. A summary of Project-wide potential emissions, with a comparison to the PSD major source threshold, is provided in Table 4-1.

Table 4-1 | Project-Wide Potential Emissions

Pollutant	Potential Emissions (tons/year)	PSD Major Source Threshold (tons/year)
NO _x	731.1	≥100
CO	2,775.6	
PM ^[1]	617.3	
PM ₁₀ ^[1]	615.2	
PM _{2.5} ^[1]	613.1	
VOC	972.3	
SO ₂	118.5	
Lead	0.08	
H ₂ SO ₄ Mist	197.1	
Fluorides	-	
Hydrogen Sulfide (H ₂ S)	-	
Total Reduced Sulfur ^[2]	Neg. ^[2]	
Reduced Sulfur Compounds ^[2]	Neg. ^[2]	
Ozone	-	Note 3
Maximum Single HAP	26.3	Note 4
Total HAPs	51.7	
CO _{2e}	7,886,857.5	Note 5
Notes: [1] Except for the inlet chillers and delugable air-cooled heat exchangers, PM includes filterable plus condensable particulate and is presumed to be equal to PM ₁₀ and PM _{2.5} . [2] Piping components associated with the proposed fuel gas system could be a potential source of fugitive natural gas emissions due to leaks. These emissions may include minor quantities of sulfur compounds from the chemical used to odorize the natural gas. Refer to the calculations in Appendix A-8. [3] A facility that is major for VOCs or NO _x is considered major for ozone. See footnote 3 of Table 7.1 in SCDES's <i>Modeling Guidelines for Air Quality Permits</i> (Revised 1/9/2025). [4] Per SC R. 61.62.5 §(44)(d), the term regulated NSR pollutant shall not include any or all hazardous air pollutants either listed in section 112 of the Act, or added to the list pursuant to section 112(b)(2) of the Act, and which have not been delisted pursuant to section 112(b)(3) of the Act, unless the listed hazardous air pollutant is also regulated as a constituent or precursor of a general pollutant listed under section 108 of the Act. <i>See also</i> 40 CFR §52.21(50)(v) (establishing the same exclusion from PSD program under the federal NSR program). [5] Pursuant to SC R. 61-62.5 §(52)(c) and 40 CFR §52.21(49)(iv)(A), GHG are only subject to regulation if the facility is already considered a new major stationary source for another regulated NSR pollutant and GHG emissions exceed 75,000 tons/yr on a CO _{2e} basis. SC R. 61.62.5 §(B)(44)(d) provides a definition of "Regulated NSR Pollutant," which only authorizes the regulation of greenhouse gases if they are "subject to regulation under the Clean Air Act." Furthermore, the phrase "subject to regulation" is defined in South Carolina's regulations as including only those air pollutants that are "subject to either a provision in the Clean Air Act, or a nationally-applicable regulation codified by the [EPA] Administrator in 40 CFR I, Subchapter C, that requires actual control of the quantity of emissions of that pollutant, and that such a control requirement has taken effect and is operative to control, limit, or restrict the quantity of emissions of that pollutant released from the regulated activity." The federal PSD regulations, codified at 40 CFR 52.21 contain the same definitions of "Regulated NSR Pollutant" and "subject to regulation," which also effectively limit the PSD permitting program to only those air pollutants that are regulated under the NSR program. <i>See</i> 40 CFR 52.21(b)(50) (definition of "Regulated NSR pollutant"); <i>Id.</i>		

4.1 COMBINED CYCLE COMBUSTION TURBINES

The methodologies used to estimate emissions from the proposed CCCTs are described in the following sections. The vendor-provided performance data included multiple operating scenarios reflecting HRSG supplementary firing via duct burner operation. The natural gas firing design scenario, selected for the development of hourly and annual potential emissions, includes the duct burners operating at the maximum nominal heat input of approximately 851 MMBtu/hr. Therefore, separate calculations for duct burner operation are not necessary. Note that HRSG duct burner operation only applies to natural gas-firing scenarios.

4.1.1 Hourly Emission Rates

For both fuel firing scenarios, hourly emissions of NO_x, CO, PM, PM₁₀, PM_{2.5}, VOCs, SO₂, H₂SO₄ mist, and CO₂, along with the HAP formaldehyde (HCHO), from the proposed combustion turbines were based on vendor-supplied emission rates associated with an ambient temperature of 59 °F, operation at 100% load (design scenario). For natural gas-firing, the hourly emission rates at the design scenario include peak duct burner firing at approximately 851 MMBtu/hr.

Hourly emission rates for pollutants that were not based on vendor-provided emissions data were estimated based on the nominal fuel consumption rate at the design scenario of the proposed combustion turbines and published emission factors. HAP and TAP emissions were estimated using emission factors from AP-42, Chapter 3, Section 3.1, *Stationary Gas Turbines* (April 2000). Methane (CH₄) and nitrous oxide (N₂O) emissions were estimated using emission factors from 40 CFR Part 98, Subpart C, Table C-2. The final CO₂e value was estimated using the global warming potentials (GWP) for CO₂, N₂O, and CH₄ provided in 40 CFR Part 98, Subpart A, Table A-1.

Hourly emission rates do not account for periods of startup, shutdown, or the alternative operating scenarios previously discussed in Section 3.1.5. Startup and shutdown emissions are addressed in Section 0.

4.1.2 Startup and Shutdown

The proposed combustion turbines incorporate design features that will minimize startup and shutdown (SU/SD) durations, thereby also minimizing emissions attributable to less efficient operation and without emissions control measures during those SU/SD events. The duration of a startup event depends on the pre-startup condition of the steam turbine. A hot start occurs when the steam turbine has been shut down for less than or equal to 8 hours, a warm start occurs when the steam turbine has been shut down for between 8 and 72 hours, and a cold start occurs when the steam turbine has been shut down for more than 72 hours.¹⁰ The anticipated maximum durations of each type of startup event for both fuel firing scenarios are as follows:

Natural Gas Firing

- Cold Start = 5.67 hours/event
- Warm Start = 4.67 hours/event
- Hot Start = 2.25 hours/event

¹⁰ Periods of operation during an incomplete startup attempt does not accrue against the durations above.

Fuel Oil Firing

- Cold Start = 9.00 hours/event
- Warm Start = 6.00 hours/event
- Hot Start = 3.00 hours/event

A startup is defined as the duration from combustion turbine ignition until the power train has ramped up to the target operational load, i.e., as necessary to safely bring the power train to target load while avoiding thermal stress on the steam turbine and HRSG equipment. Shutdown events are estimated to last one hour on both natural gas and fuel oil, with a shutdown being defined as the period between initiation of the combustion turbine shutdown sequence and flame off of the combustion turbine.

The vendor provided SU/SD emissions data on a per-event basis for the following pollutants: NO_x, CO, PM, PM₁₀, PM_{2.5}, and VOCs. Annual SU/SD emissions for these pollutants were estimated using the vendor-supplied per-event emission rates and the maximum number of SU/SD events expected per year per power train, i.e., 140 events per year when firing natural gas and 56 events per year when firing fuel oil per power train.

SO₂, CO₂ and HCHO SU/SD emissions were estimated based on the vendor provided emission rates described in Section 4.1.1, SU/SD event duration, and the number of SU/SD events expected per year.

SU/SD emissions for pollutants that were not based on vendor-provided emissions data were estimated using the methodologies described in Section 4.1.1, SU/SD event duration, and the number of SU/SD events expected per year. This is a conservative approach given that it utilizes a fuel consumption rate associated with full-load operation, which is higher than the actual fuel consumption rate anticipated during SU/SD.

4.1.3 Annual Emission Rates

Applicant estimated potential annual emissions from the proposed combustion turbines, including emission controls, pursuant to SC R. 61-62.1, §II(C)(3)(k). All annual emission rates were estimated using the hourly design scenario emission rates described in Section 4.1.1 and the SU/SD emission rates described in Section 4.1.2. Potential (controlled/limited) annual emissions (i.e., PTE) considered both the use of proposed air pollution control equipment and the anticipated operational profile. Potential annual emissions were conservatively estimated by evaluating emissions across the two fuel firing scenarios: 1) natural gas firing only and 2) fuel oil and natural gas firing. For each fuel firing scenario, emission calculations were then developed as follows:

1. **Normal Operations (No SU/SD Hours):** Emissions were calculated assuming the combustion turbines operate at their design load for the full annual operating profile under each fuel firing condition. This represents emissions at normal, steady-state operation.
 - a. **Natural Gas Firing Only:** 8,760 hours per year (hours/year) at design scenario operation, exclusive of SU/SD hours.
 - b. **Natural Gas and Fuel Oil Firing:**
 - i. **Fuel Oil:** 720 hours/year at design scenario operation, exclusive of SU/SD hours.
 - ii. **Natural Gas:** Remaining 8,040 hours/year at design scenario operation.

2. **Normal Operations (With SU/SD Hours):** Emissions were calculated by first reducing the annual normal operating hours to account for the time associated with SU/SD events. Emissions generated during SU/SD periods were then added to the adjusted normal-operation emissions to develop a complete annual emission estimate that incorporates both steady-state and SU/SD operating scenarios.
 - a. **Natural Gas Firing Only:** 8,116 hours/year at design scenario operation; 140 natural gas SU/SD events/year or 644 hours/year of natural gas SU/SD operation.
 - b. **Natural Gas and Fuel Oil Firing:**
 - i. **Fuel Oil:** 388 hours/year at design scenario operation; 56 fuel oil SU/SD events/year or 332 hours/year of fuel oil SU/SD operation.
 - ii. **Natural Gas:** 7,396 hours/year at design scenario operation; 140 natural gas SU/SD events/year or 644 hours/year of natural gas SU/SD operation.
3. For each pollutant, the higher emission value across all scenarios was selected as the final potential annual emission rate.

The emission calculations described above are presented in Appendix A-2 for a single CCCT power train. The derivation of hourly and annual emissions associated with SU/SD operations is provided in Appendix A-3 and the final potential annual emissions for all three CCCT power trains are summarized in Appendix A-4.

4.2 NATURAL GAS-FIRED EQUIPMENT

Emission calculations for the other natural gas-fired equipment were developed as discussed in the following sections.

4.2.1 Fuel Gas Heaters

Emissions of criteria pollutants, HAPs/TAPs, and GHGs were estimated using emission factors from Chapter 1.4 of AP-42 in conjunction with supporting engineering calculations. The final CO_{2e} values for the fuel gas heaters were estimated using the GWPs for CO₂, N₂O, and CH₄ provided in 40 CFR Part 98, Subpart A, Table A-1. Although this equipment will operate intermittently, annual emissions estimates were conservatively developed assuming normal operation at 8,760 hours/year. Emission calculations for the fuel gas heaters are provided in Appendix A-5 and A-11, respectively.

4.2.2 Auxiliary Boiler

Emissions of NO_x and CO from the natural gas-fired auxiliary boiler were estimated using exhaust concentration data provided in the boiler's technical specifications located in Appendix B. Emissions of other criteria pollutants, HAPs/TAPs, and GHGs were estimated using emission factors from Chapter 1.4 of AP-42 and corresponding engineering calculations. The final CO_{2e} value was estimated using the GWPs for CO₂, N₂O, and CH₄ provided in 40 CFR Part 98, Subpart A, Table A-1. As the auxiliary boiler will operate intermittently, annual emissions were based on a limited operating schedule of 2,000 hours/year. The auxiliary boiler will need to operate at higher loads and for longer periods of time relative to normal, post-commissioning, operations in order to support initial commissioning of the CCCT power trains. As such, these operational limits exclude periods of CCCT power train commissioning. Emission calculations are provided in Appendix A-6.

4.3 DIESEL-FIRED EQUIPMENT

Applicant plans to install three (3) diesel-fired emergency generators and two (2) diesel-fired emergency fire water pump engines as part of this Project. The exact make and model of each engine have not yet been selected. For the purpose of this application, Applicant assumes that the proposed emergency generator engines will meet or exceed the emissions specifications of a 2,500-kWe Caterpillar 3516C generator set, and the fire water pump engines will meet or exceed the emissions specifications of a 315-bhp Clark JU6H-UFAD98 engine. The generator and fire pump engines will be emergency stationary compression ignition internal combustion engines certified to the applicable model-year standards in accordance with 40 CFR Part 60, Subpart IIII.

Emissions of PM, PM₁₀, PM_{2.5}, NO_x, VOCs and CO were estimated using engine-specific emissions data provided in the manufacturer's equipment specifications, which serves as a conservative representation of the final selected equipment (see Appendix B).¹¹ Emissions of SO₂ and HAPs were estimated using emission factors obtained from Chapter 3.4 of AP-42.

GHG emission calculations were also prepared for the emergency engines, including CO₂, CH₄, and N₂O. Emissions of each pollutant were quantified using emission factors from Table C-1 and Table C-2 of 40 CFR Part 98, Subpart C. Resulting emission rates were then converted to CO_{2e} using the corresponding GWPs in Table A-1 of 40 CFR Part 98, Subpart A.

Each emergency engine will be equipped with a non-resettable hour meter and will operate no more than 100 hours/year per engine for non-emergency purposes, including maintenance checks and readiness testing. Operating hours during emergency events are not limited. Potential annual emissions for each emergency engine have been estimated assuming up to 500 hours/year of operation consistent with EPA guidance.¹² Emission calculations for the diesel-fired engines are presented in Appendix A-7.

4.4 FUEL OIL STORAGE

As part of the Project, Applicant will install two (2) fuel oil ASTs, each with a capacity of approximately 3 million gallons. Additionally, Applicant assumes that each emergency generator and emergency fire water pump engine will be equipped with its own belly tank for diesel fuel storage. Emissions from these tanks will consist of VOCs generated through working and breathing losses during filling and emptying operations and from diurnal temperature fluctuations. Emission calculations were prepared using the methodology in AP-42, Chapter 7.1, and are included in Appendix A-9.

At this time, final tank design and specifications have not yet been completed. Therefore, conservative assumptions were used to quantify emissions. The two (2) 3-million gallon fuel oil tanks are assumed to be white, vertical, fixed-dome roof tanks, approximately 40 feet tall and 120 feet in diameter. The tanks will be designed, fabricated, and installed in accordance with the American Petroleum Institute (API) 650 standards for welded steel storage tanks. Maximum annual throughput was estimated based on the amount of fuel oil that would be consumed by all three (3) combustion turbines operating at full load on fuel oil for 720 hours/year (i.e., 63,000,000 gallons/year total, or 32,000,000 gallons/tank-year).

¹¹ PM, PM₁₀, and PM_{2.5} estimates include both filterable and condensable particulates.

¹² EPA, *Memorandum: Calculating Potential to Emit (PTE) for Emergency Generators*, September 6, 1995.

Emission estimates for the emergency generator and fire water pump belly tanks were based on approximate storage capacities of 4,000 gallons for the generator tanks and 300 gallons for the fire water pump tanks. Maximum annual throughput was calculated using a conservative estimate of 500 operating hours per year per engine and a peak fuel consumption rate of 168 gallons/hour for each generator and 15 gallons/hour for each fire water pump.

Emissions calculations for the small fuel oil belly tanks and two (2) large fuel oil ASTs are presented in Appendix A-9a and A-9b, respectively. Speciated HAP/TAP emissions from the two (2) large fuel oil ASTs are quantified in Appendix A-9c.¹³

4.5 FUGITIVE EMISSIONS

Fugitive emissions from leaking components were estimated and are presented in Appendix A-8. Component counts were developed based on component inventory estimates associated with another DESC facility. The total number of valves, connectors, and relief valves associated with this Project was conservatively estimated by increasing the sister facility component count by a factor of three. Component-specific emission factors were obtained from the EPA's document titled *Protocol for Equipment Leak Emission Estimates*¹⁴ (Protocol) and coupled with component counts to estimate mass emission rates of total organic carbon (TOC) per hour.

Gas composition data were used to determine the weight fractions of TOC, VOC, and other gaseous species present in the gas stream. Weight fractions for regulated pollutants were normalized based on the equation provided under Section 2.4.6 of the Protocol and used to estimate hourly and annual emission rates for all relevant component classes.

Fugitive emissions of CO₂ and CH₄ were estimated using the methodology described above. The resulting mass emissions rates were converted to CO_{2e} using the corresponding GWPs reported in Table A-1 of 40 CFR Part 98, Subpart A.

For hexane emissions, a comparison of total TAP emissions to the pollutant's corresponding air dispersion modeling *de-minimis* rate was performed and found to be below the *de-minimis* value. Emissions calculations are presented in Appendix A-8.

4.6 SF₆ CIRCUIT BREAKERS

The Project will include the installation of sixty-six (66) high-voltage electrical circuit breakers, which contain SF₆ as an insulating fluid. Although emissions of SF₆ associated with equipment leakage are expected to be minimal, emission rates were conservatively estimated using the methodology outlined in EPA's SF₆ leak rate technical paper¹⁵. An example calculation is as follows:

¹³ As shown in Appendix B-9a, total emissions from the belly tanks are extremely trivial. Due to the insignificance of these emissions, individual TAP emissions were not quantified for these sources.

¹⁴ Specifically, emission factors were obtained from Table 2-4 (Oil and Gas Production Operations Average Emission Factors) for components in gas service.

¹⁵ *SF₆ Leak Rates from High Voltage Circuit Breakers – EPA Investigates Potential Greenhouse Gas Emission Source* – J. Blackman, Program Manager EPA, M. Averyt, ICF Consulting, and Z. Taylor, ICF Consulting.

- Quantity of SF₆ Gas in a Full Charge 230-kV Breaker= 226 lb/breaker
- SF₆ Leak Rate = 0.5%
- Number of Breakers = 52
- Annual SF₆ Emission Rate = (226 lb SF₆/breaker) X (52 breakers) X (0.5%) X (1 ton/2,000 lb) = 0.025 tpy

SF₆ emissions were converted to CO₂e using the global warming potential of 23,500 reported in Table A-1 of 40 CFR Part 98, Subpart A. Emission calculations for the circuit breakers are presented in Appendix A-10.

4.7 INLET CHILLERS

Emissions of PM, PM₁₀, and PM_{2.5} were estimated using factors from Chapter 13.4 of AP-42 and a water circulation rate of approximately 24,000 gpm. The weight percent of PM₁₀, and PM_{2.5} in particulate emissions are estimated at 70% and 42%, respectively, referenced from "Methodology to Calculate Particulate Matter (PM) 2.5 and PM_{2.5} Significance Thresholds", Krause and Smith, South Coast Air Quality Management District, 2006, Appendix A. The chillers will be controlled by high efficiency drift eliminators that will limit drift to 0.0005%. This system will primarily operate during periods of higher ambient temperatures. However, the emissions calculations for the inlet chillers are based on 8,760 hrs/yr to provide a conservative estimate and are presented in Appendix A-17.

4.8 DELUGABLE AIR-COOLED HEAT EXCHANGERS

Emissions of PM, PM₁₀, and PM_{2.5} were estimated using factors from Chapter 13.4 of AP-42 and a water circulation rate of approximately 25,000 gpm. The weight percent of PM₁₀, and PM_{2.5} in particulate emissions are estimated at 70% and 42%, respectively, referenced from "Methodology to Calculate Particulate Matter (PM) 2.5 and PM_{2.5} Significance Thresholds", Krause and Smith, South Coast Air Quality Management District, 2006, Appendix A. The delugable air-cooled heat exchangers will be controlled by a drift eliminator that will limit drift to 0.01%. This hybrid cooling system operates primarily dry but incorporates a deluge system during periods of exceptionally high ambient temperatures. However, the emissions calculations for the delugable air-cooled heat exchangers are based on 8,760 hrs/yr to provide a conservative estimate and are presented in Appendix A-18.

5.1 PERMITTING PROGRAMS

5.1.1 Title V Operating Permit Program

The Title V Operating Permit Program, codified at 40 CFR Part 70, requires facilities that meet the definition of a major source to obtain a Title V Operating Permit. According to 40 CFR Part 70.2, a major source located in an attainment area is defined as a stationary source that has the potential to emit 100 tons/year or more of any criteria pollutant,¹⁶ 10 tons/year or more of a single HAP, and/or 25 tons/year or more of total combined HAPs. Lower thresholds may be established for specific pollutants in areas designated as nonattainment. The federal program is incorporated into the South Carolina regulations at SC R. 61-62.70.

As discussed previously, potential emissions from the Facility will exceed the 100 tons/year threshold for a number of criteria pollutants. The Facility will also be a major source of HAPs. As such, the Facility will apply for a Title V Operating Permit within 12 months of commencing operations in accordance with SC R. 61-62.70.5(a)(1)(i).

5.1.2 Prevention of Significant Deterioration (PSD)

The PSD program applies to the construction of any new major stationary source or major modification of an existing major stationary source in an attainment area. The program requires such stationary sources to undergo preconstruction review, referred to as PSD review, and obtain a major source air quality construction permit before commencing construction or modification. The PSD program is incorporated into the South Carolina regulations at SC R. 61-62.5, Std. No. 7.

Pursuant to SC R. 61-62.5, Std. No. 7, §(B)(32)(a), the term major stationary source means:

- A stationary source belonging to one of 28 source categories listed in SC R. 61-62.5, Std. No. 7, §(B)(32)(a)(i) with the potential to emit greater than 100 tons/yr or more of any regulated NSR pollutant.¹⁷
- A stationary source not belonging to one of the 28 source categories with the potential to emit greater than 250 tons/yr or more of any regulated NSR pollutant.

The Facility is a fossil fuel-fired steam electric plant with a heat input greater than 250 MMBtu/hr, one of the listed source categories, and has the potential to emit more than 100 tons/year of various regulated NSR pollutants. As such, the Facility is a new major stationary source under the PSD permitting program.

According to the EPA's *Draft New Source Review Workshop Manual for PSD and Nonattainment Area Permitting*,¹⁸ the first step in the permitting process for a project not located at an existing major stationary

¹⁶ Does not include PM but includes PM₁₀ and PM_{2.5}.

¹⁷ In accordance with SC R. 61-62.5, Std. No. 7, §(B)(32)(c), fugitive emissions shall not be included in determining whether a source is a major stationary source unless it belongs to one of the 28 listed source categories. Since the Facility qualifies as one of the 28 listed source categories, fugitive emissions are included in determining major source status.

¹⁸ Draft published October 1990.

source is to determine if the project is major for any applicable pollutant by comparing potential emissions to the appropriate major source threshold. As demonstrated in Table 4-1, the Project will exceed the relevant PSD permitting threshold for multiple NSR pollutants. The next step is to determine the pollutants that are subject to PSD review by comparing the Project potential emission rate for each regulated NSR pollutant to the PSD SERs specified at SC R. 61-62.5, Std. No. 7, §(B)(49)(a).¹⁹ A comparison of Project potential emissions to the PSD SERs is provided in Table 5-1.

Table 5-1 | Project Potential Emissions & PSD SER Thresholds

Pollutant	Project Potential Emissions (tons/year)	PSD Significant Emission Rates (tons/year)	Triggers PSD Review?
NO _x	731.1	40	Y
CO	2,775.6	100	Y
PM ²⁰	617.3	25	Y
PM ₁₀	615.2	15	Y
PM _{2.5}	613.1	10	Y
VOC	972.3	40	Y
SO ₂	118.5	40	Y
Lead	0.08	0.6	N
H ₂ SO ₄ Mist	197.1	7	Y
H ₂ S	-	10	N
Total Reduced Sulfur	Neg.	10	N
Reduced Sulfur Compounds	Neg.	10	N
Fluorides	-	3	N
Ozone	-	40 (of NO _x or VOCs)	Y
CO _{2e}	8,588,997.0	75,000	Y

The Facility's potential emissions will exceed the 100 tons/year major source threshold as well as the PSD SERs for PM, PM₁₀, PM_{2.5}, NO_x, CO, VOC, SO₂, H₂SO₄ mist, and GHGs. Pursuant to SC R. 61-62.5, Std. No. 7, §(J), a new major stationary source must apply best available control technology (BACT) for each regulated NSR pollutant for which it has the potential to emit in significant amounts. As such, a technology review has been performed to establish BACT for PM, PM₁₀, PM_{2.5}, NO_x, CO, VOCs, SO₂, H₂SO₄ mist, and GHG emissions, in accordance with the relevant guidelines. The results of the BACT analyses are summarized in Section 6. Air dispersion modeling has been performed to demonstrate compliance with the air quality and other impact analysis requirements of SC R. 61-62.5, Std. No. 7 and SC R. 61-62.5, Std. No. 2 for each pollutant exceeding its SER. The air dispersion modeling analysis will be submitted under separate cover.

5.1.3 Nonattainment New Source Review (NNSR)

The NNSR program applies to construction of a new major stationary source or major modification of an existing major stationary source in a nonattainment area. Colleton County is listed as either being in

¹⁹ The SER for CO_{2e} was taken from SC R. 61-62.5, Std. No. 7, §(B)(52)(d).

²⁰ Except for the inlet chillers and deluge auxiliary equipment cooling systems, PM includes filterable plus condensable particulate and is presumed to be equal to PM₁₀ and PM_{2.5}.

attainment or unclassifiable status with respect to all National Ambient Air Quality Standards (NAAQS).²¹ Therefore, the provisions of the NNSR program do not apply.

5.1.4 South Carolina Permitting

SC R. 61-62.1, Section II.A requires a construction permit to be issued prior to commencing construction or modification of any source of air contaminants, unless otherwise exempted. This application is being submitted to request authorization to construct the proposed combustion turbines (EU01 – EU03) and other sources of pollutants subject to PSD review; namely, duct burners (EU04 A, B, C), auxiliary boiler (EU05), emergency generators (EU06 – EU08), emergency fire pumps (EU09A, EU09B), natural gas fuel system piping components (EU10), fuel oil belly tanks (EU11 – EU13, EU14A, EU14B), two large fuel oil storage tanks (EU15, EU16), SF₆ circuit breakers (EU17), and fuel gas heaters (EU18-EU21).

5.2 NEW SOURCE PERFORMANCE STANDARDS

New Source Performance Standards (NSPS), codified in 40 Code of Federal Regulations (CFR) Part 60, establish pollutant-specific emission limits and attendant monitoring, recordkeeping and reporting requirements for various emission units based on source type and size. The NSPS apply to new, modified, or reconstructed stationary sources within the relevant NSPS source category. The applicability of a particular NSPS to a facility can be ascertained based on the industrial source category covered. South Carolina has incorporated the federal NSPS by reference at SC R. 61-62.60. The applicability or non-applicability of relevant NSPS are described below.

5.2.1 NSPS General Provisions (40 CFR Part 60, Subpart A)

Any source subject to an NSPS under 40 CFR Part 60 is also subject to the general provisions of 40 CFR Part 60, Subpart A (NSPS A). The new combustion turbines, emergency generators, and fire water pumps will be subject to NSPS regulations and therefore subject to the general provisions. Key provisions of NSPS A that will apply to the new emission units are summarized below.

- Notification and Recordkeeping (40 CFR §60.7)
- Performance Tests (40 CFR §60.8)
- Compliance with Standards and Maintenance Requirements (40 CFR §60.11)
- Monitoring Requirements (40 CFR §60.13)

Applicant will comply with these provisions as required based on NSPS A and the applicable NSPS subparts.

5.2.2 Standards of Performance for Fossil-Fuel-Fired Steam Generators (40 CFR Part 60, Subpart D)

40 CFR Part 60, Subpart D (NSPS D) applies to certain fossil fuel-fired steam generating units with a heat input rating more than 250 MMBtu/hr that commenced construction or modification after 17 August 1971. This rule does not apply to turbines subject to 40 CFR Part 60, Subparts KKKK or KKKKa (NSPS KKKK

²¹ <https://www3.epa.gov/airquality/greenbook/anc1.html>. Accessed June 2025.

or NSPS KKKKa). As discussed in Section 5.2.6, the new combustion turbines are subject to NSPS KKKKa. Therefore, these emission units are not subject to NSPS Subpart D.

Although the new auxiliary boiler will be considered a fossil fuel-fired steam generating unit, it will not have a heat input rating of more than 250 MMBtu/hr. Thus, the auxiliary boiler is not subject to this NSPS regulation.

5.2.3 Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60, Subpart Db)

The provisions of 40 CFR Part 60, Subpart Db (NSPS Db) apply to steam generating units that have a heat input greater than 100 MMBtu/hr for which construction, modification, or reconstruction commenced after 19 June 1984. The new auxiliary boiler does not have a heat input exceeding 100 MMBtu/hr. Therefore, the auxiliary boiler is not subject to NSPS Db.

Duct firing in the HRSGs will be regulated under NSPS KKKKa; therefore, the HRSGs are exempt from Subpart Db pursuant to 40 CFR §60.4305(b).

5.2.4 Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60, Subpart Dc)

40 CFR Part 60, Subpart Dc (NSPS Dc) applies to steam generating units that have a heat input from 10 to 100 MMBtu/hr for which construction, modification, or reconstruction commenced after 09 June 1989. The Project will include one natural gas-fired auxiliary boiler with a nominal maximum heat input capacity of 99.8 MMBtu/hr (EU05) and three (3) natural gas-fired fuel gas heaters, each with a nominal maximum heat input capacity of 20 MMBtu/hr (EU18, EU19, and EU20). The auxiliary boiler and larger fuel gas heaters will be subject to the applicable requirements of NSPS Dc. The small fuel gas heater, EU21, will not be subject to NSPS Dc because it will have a heat input of less than 10 MMBtu/hr.

NSPS Dc establishes emission standards for SO₂, PM, and opacity. Because the affected facilities will combust only natural gas, they will qualify for the regulatory provisions applicable to units firing gaseous fuels pursuant to 40 CFR §60.42c and §60.43c.

Specifically, for natural gas-fired units:

- The SO₂ emission standard is inherently met because natural gas contains negligible sulfur content.
- The PM emission limit and opacity standard are met by combustion of natural gas and proper operation of the boiler.
- Units combusting only natural gas are not subject to opacity monitoring requirements under 40 CFR §60.43c(e).

As natural gas-fired units, the auxiliary boiler and fuel gas heaters will be subject primarily to the notification and reporting requirements of NSPS Dc, including:

- Notification of construction/reconstruction (40 CFR §60.7(a)(1)).
- Notification of anticipated startup (40 CFR §60.7(a)(2)).
- Notification of actual startup (40 CFR §60.7(a)(3)).
- Excess emissions reporting, if applicable (40 CFR §60.48c).

In addition, the Facility will maintain the appropriate records documenting that the units fire only natural gas in accordance with 40 CFR §60.48c(g).

5.2.5 Standards of Performance for Volatile Organic Liquid Storage Vessels (40 CFR Part 60, Subparts K, Ka, Kb, and Kc)

40 CFR Part 60, Subparts K, Ka, Kb and Kc (NSPS K, Ka, Kb, and Kc) apply to volatile organic liquids (VOL) storage vessels of certain sizes that have been constructed, reconstructed, or modified during various time periods. NSPS K applies to storage vessels for which construction, reconstruction, or modification commenced after 11 June 1973, but prior to 19 May 1978. NSPS Ka applies to storage vessels for which construction, reconstruction, or modification commenced after 18 May 1978, but prior to 23 July 1984. NSPS Kb applies to storage vessels for which construction, reconstruction, or modification commenced after 23 July 1984, but prior to 04 October 2023. All storage vessels at the Facility will be constructed after calendar year 2023; therefore, NSPS K, Ka, and Kb do not apply.

NSPS Kc applies to storage vessels for which construction, reconstruction, or modification commenced after 04 October 2023, with a capacity greater than or equal to 20,000 gallons (75.7 cubic meters) that store VOLs with a maximum true vapor pressure of at least 0.25 pounds per square inch absolute (psia). The Facility intends to install two (2) fuel oil storage tanks, each with a capacity of 3 million gallons. All other tanks will have capacities below the 20,000-gallon threshold. Fuel oil vapor pressure is typically around 0.005 psia which is significantly below the applicability threshold of 0.25 psia. As such, NSPS Kc does not apply.

5.2.6 Standards of Performance for Stationary Combustion Turbines (40 CFR Part 60, Subparts KKKK and KKKKa)

NSPS KKKK, Standards of Performance for Stationary Combustion Turbines, regulates stationary combustion turbines with a heat input at peak load equal to or greater than 10 MMBtu/hr for which construction, reconstruction, or modification commenced after 18 February 2005, and contains emissions limits for SO₂ and NO_x. On 15 January 2026, the U.S. EPA finalized revisions to NSPS KKKK and promulgated a new NSPS KKKKa that applies to combustion turbines for which construction, reconstruction, or modification commenced after 13 December 2024. Construction of the combustion turbines will commence after the applicable date, so they will be subject to NSPS KKKKa. Stationary combustion turbines subject to the standards in NSPS KKKKa are not subject to the requirements of NSPS KKKK.

NSPS KKKKa applies NO_x and SO₂ standards to all stationary combustion turbines with a base load rating greater than 10 MMBtu/hr heat input, except for those classified as emergency combustion turbines. Affected sources under NSPS KKKKa must operate and maintain their stationary combustion turbines and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction. The following emission standards will apply to the new combustion turbines.

Table 5-2 | NSPS KKKKa Emission Standards

Pollutant/Fuel Type	Emission Limit
NO _x – Natural Gas <i>Applies to new turbines with heat input >850 MMBtu/h, firing natural gas at utilization rate >45 percent</i>	Input Based Standard: 5 ppm NO _x at 15 percent O ₂ (0.018 lb/MMBtu) Optional Output Based Standard: 0.12 lb/MWh-gross of NO _x ; 0.12 lb/MWh-net of NO _x
NO _x – Fuel Oil <i>Applies to new turbines with heat input >850 MMBtu/h, firing non-natural gas</i>	Input Based Standard: 42 ppm NO _x at 15 percent O ₂ (0.16 lb/MMBtu) Optional Output Based Standard: 1.0 lb/MWh-gross of NO _x ; 1.0 lb/MWh-net of NO _x
NO _x - Operation at less than 70% of the base load rating	Input Based Standard: 96 ppm NO _x at 15 percent O ₂ (0.16 lb/MMBtu)
NO _x – Heat recovery unit operating independent of the combustion turbine	Input Based Standard: 54 ppm NO _x at 15 percent O ₂ (0.20 lb/MMBtu)
SO ₂	0.90 pounds SO ₂ per megawatt-hour (lb/MWh) gross output or Not burn any fuel that contains emissions in excess of 0.060 lb SO ₂ /MMBtu heat input

Each combustion turbine will utilize DLN combustors and SCRs to meet the NSPS KKKKa NO_x emission limits. Water injection will also be utilized when firing fuel oil. The part load standard is applicable during any hour the combustion turbine operates below 70% of the base load rating. During each operating hour when the heat input to the turbine is less than 50% natural gas at any point during the operating hour, the fuel oil standard applies. During each operating hour when the heat input to the turbine is greater than 50% natural gas, the applicable NO_x standard is determined by pro-rating the natural gas and fuel oil standards. Note that compliance with these input-based standards is determined on a 4-operating-hour rolling average basis. Applicant may choose to comply with the output-based standards, where compliance is determined on a 30-operating-day average basis. A NO_x CEMS will be used to monitor compliance with the applicable limit. Excess emissions are defined as any unit operating period in which the 4-hour or 30-day (as applicable) average NO_x emissions rate exceeds the applicable emissions limit.

The SO₂ emission limit will be met by firing fuels (natural gas and fuel oil) containing less than 0.060 lb SO₂/MMBtu heat input. Applicant proposes to demonstrate compliance with the SO₂ emissions limits using supplier purchasing contract(s) or tariff sheet(s) in accordance with 40 CFR §60.4372a.

5.2.7 Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units (40 CFR Part 60, Subparts TTTT/TTTTa)

The U.S. EPA has promulgated two standards of performance for GHG emissions from electric generating units, codified at 40 CFR Part 60, Subpart TTTT (NSPS TTTT) and 40 CFR Part 60, Subpart TTTTa (NSPS TTTTa). Both rules apply to new and reconstructed stationary combustion turbines that have a baseload

rating greater than 250 MMBtu/hr and serve a generator capable of selling greater than 25 MW of electricity to a utility power distribution system. NSPS TTTT applies to stationary combustion turbines that commence construction or reconstruction after 8 January 2014 and on or before 23 May 2023. NSPS TTTTa applies to stationary combustion turbines that commence construction or reconstruction after 23 May 2023. The stationary combustion turbines will commence construction after 23 May 2023 and are therefore not subject to NSPS TTTT. NSPS TTTTa includes emissions standards and compliance schedules for stationary combustion turbines that commence construction or reconstruction after 23 May 2023 that have a base load rating greater than 250 MMBtu/hr. In accordance with 40 CFR §60.5509a(a), the proposed new turbines would be subject to NSPS TTTTa because they will each have a base load rating greater than 250 MMBtu/hr, serve a generator or generators capable of selling greater than 25 megawatts (MW) of electricity to a utility power distribution system, will commence construction after 23 May 2023, and do not meet any exemption criteria under 40 CFR §60.5509a(b).

Under 40 CFR §60.5580a, NSPS TTTTa provides definitions for three types of combustion turbines as either “base load,” “intermediate load,” or “low load” units. Base load combustion turbines supply more than 40% of their potential electric output as net-electric sales on both a 12-operating month and a 3-year rolling average basis. Intermediate load combustion turbines supply more than 20 percent but less than or equal to 40 percent of their potential electric output as net-electric sales on both a 12-operating month and a 3-year rolling average basis. Low-load combustion turbines supply 20 percent or less of their potential electric output as net-electric sales on both a 12-operating month and a 3-year rolling average basis. Pursuant to 40 CFR §60.5580a, “net electric sales” means “the gross electric sales to the utility power distribution system minus purchased power.”

Applicant intends to operate the combustion turbines as base load units. As base load units, the combustion turbines would be subject to a Phase I CO₂ emissions standard under 40 CFR §60.5520a(a) and Table 1 to TTTTa based on gross energy output or net energy output. For base load natural gas-fired combustion turbines, the 12-operating month average CO₂ emissions standard that applies before January 2032 is 800 lb CO₂/MWh of gross energy output or 820 lb CO₂/MWh of net energy output. The 12-operating month average CO₂ emissions standard that applies to these base load combustion turbines after December 2031 is 100 lb CO₂/MWh of gross energy output or 97 lb CO₂/MWh of net energy output. These post-2031 emissions limitations (Phase 2) are based on carbon capture and sequestration as the best system of emission reduction (BSER). Emissions are determined in accordance with the procedures in 40 CFR §60.5525a. Compliance with the limits is determined in accordance with the procedures in 40 CFR §60.5525a. The monitoring, recordkeeping, and reporting requirements are specified under 40 CFR §60.5535a, §60.5560a, and §60.5555a, respectively.

On 17 June 2025, the U.S. EPA published a proposed rule that would repeal all emissions standards and compliance schedules for the control of GHG emissions from new gas- and oil-fired stationary combustion turbines under two alternatives. The primary alternative would repeal these GHG standards and requirements by revoking U.S. EPA’s authority to regulate GHG emissions from major stationary sources, including new combustion turbines, under section 111 of the Clean Air Act. In the alternative, this same June 2025 rulemaking proposed to repeal specific portions of NSPS TTTTa based on major technical shortcomings in making the BSER determinations used for setting those performance standards. Specifically, U.S. EPA’s alternative proposal would repeal the Phase 2 carbon capture and sequestration-based requirements for new base load stationary combustion turbines. Although the Phase 1 standards based on highly efficient combined cycle generation with best operating and maintenance practices would remain

in effect under this alternative proposal, the U.S. EPA also solicited comment in the same rulemaking on this issue and has indicated that it may, if appropriate, engage in further rulemaking at a future date if the alternative proposal is finalized. Possible regulatory outcomes under this subsequent rulemaking include either the repeal of Phase 1 standards for new stationary combustion turbines based on technical shortcomings or the elimination of the U.S. EPA's authority to regulate GHG emissions from all major sources, including new combustion turbines, under section 111 of the Clean Air Act.

Applicant will comply with the applicable standards promulgated under 40 CFR Part 60 that are, and remain, in effect upon and following startup of the Facility. If, for example, U.S. EPA elects to repeal some or all the applicable NSPS TTTTa limitations, then the Facility will be subject to and comply with only those NSPS limitations that remain in effect. Similarly, the Facility may not be subject to any NSPS limitations under either NSPS TTTTa or NSPS TTTT if the U.S. EPA repeals EPA authority to regulate GHG emissions from all major sources under section 111 of the Clean Air Act. The terms of the permit should reflect this uncertainty by expressly providing that the Facility is only subject to applicable performance standards of an effective NSPS for GHG emissions from the new combustion turbine, as codified at 40 CFR. Part 60.

5.2.8 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60, Subpart IIII)

The proposed emergency generator engines (EU06 – EU08) and the emergency fire pump engines (EU09A and EU09B) are all diesel-fired, will be constructed after 11 July 2005 and manufactured after 01 April 2006. As such, the units will be subject to 40 CFR Part 60, Subpart IIII (NSPS IIII) per 40 CFR §60.4200(a)(2). Each of the units will have an engine displacement of less than 10 liters per cylinder (L/cylinder).

Emissions standards are applicable to each new emergency compression ignition (CI) internal combustion engine (ICE) under NSPS IIII, as follows. Pursuant to 40 CFR §60.4205(b), owners and operators of a new emergency CI ICE with a displacement of less than 30 L/cylinder and that is not a fire pump engine must comply with the emission standards applicable to manufacturers of new nonroad CI engines contained in 40 CFR §60.4202. Because the proposed emergency generators will have displacements below 10 L/cylinder and will be greater than 2,237 kW, they must be certified by the manufacturer according to the tier requirements of 40 CFR §60.4202(b)(2). Under 40 CFR §60.4205(c), fire pump engines with displacement of less than 30 liters per cylinder must comply with the emission standards in Table 4 to NSPS IIII, according to model year and NFPA nameplate engine power. Applicant will purchase CI ICEs, both emergency generators and emergency fire pumps, that are certified to meet the applicable emissions standards.

Applicant will operate and maintain the certified engines in accordance with the manufacturer's written emission-related instructions as required by 40 CFR §60.4211(a). Operation of the emergency CI ICEs will be limited pursuant to 40 CFR §60.4211(f) to less than 100 hours per calendar year for non-emergency purposes, including maintenance checks and readiness testing, demand response periods, and periods of voltage or frequency deviation. The emergency CI ICEs will be equipped with a non-resettable hour meter as required by 40 CFR §60.4209(a) to demonstrate compliance with the operational limit for emergency CI ICE.

Per 40 CFR §60.4207(b), the new CI ICEs will be required to use diesel fuel that meets the requirements of §1090.305. Specifically, the diesel fuel must: (i) have a maximum sulfur content not exceeding 15 ppm; and (ii) have a minimum cetane index of 40 or a maximum aromatic content of 35% (by volume). Applicant will only purchase and use diesel fuel that meets these requirements.

5.3 NATIONAL EMISSION STANDARDS FOR HAPS

The National Emissions Standards for Hazardous Air Pollutants (NESHAP), codified in 40 CFR Parts 61 and 63, regulate HAP emissions from various affected sources. South Carolina has incorporated by reference the NESHAPs in 40 CFR Parts 61 and 63 at SC R. 61-62.61 and 61-62.63, respectively. NESHAPs in Part 61 were developed on a pollutant-specific basis and NESHAPs in Part 63 were developed for particular industrial source categories. There are no Part 61 NESHAPs that apply to the Project. The applicability of a particular Part 63 NESHAP can be readily ascertained based on the industrial source category covered. Potentially applicable NESHAPs are described below.

Note, the Facility will be a new major source of HAPs. As defined in 40 CFR §63.2, a major source of HAP emissions is a contiguous site under common control that emits or has the potential to emit a single HAP at a rate of 10 tons or more per year or any combination of HAPs at a rate of 25 tons or more per year.

5.3.1 40 CFR Part 63, Subpart A- General Provisions

Any source subject to a NESHAP under 40 CFR Part 63 is also subject to the general provisions of 40 CFR Part 63, Subpart A (NESHAP A). The new combustion turbines, auxiliary boiler, fuel gas heaters, and diesel-fired CI emergency engines will be subject to various NESHAP regulations. Key provisions of NESHAP A that will apply to the new emission units are summarized below.

- Preconstruction Review and Notification Requirements (40 CFR §63.5)
- Compliance with Standards and Maintenance Requirements (40 CFR §63.6)
- Performance Testing Requirements (40 CFR §63.7)
- Monitoring Requirements (40 CFR §63.8)
- Notification Requirements (40 CFR §63.9)
- Recordkeeping and Reporting Requirements (40 CFR §63.10)

As noted in 40 CFR §63.1(a)(4)(i), the specific provisions of NESHAP A applicable to the affected sources associated with this Project are identified in the applicable NESHAP subparts discussed below.

5.3.2 NESHAP for Industrial Process Cooling Towers (40 CFR Part 63, Subpart Q)

40 CFR Part 63, Subpart Q applies to industrial process cooling towers that are operated with chromium-based water treatment chemicals and are located at a major source of HAP or an integral part of a facility that is a major source defined in 40 CFR §63.401. The proposed inlet chillers will not use chromium-based water treatment chemicals. As such, this Subpart does not apply.

5.3.3 NESHAP for Stationary Combustion Turbines (40 CFR Part 63, Subpart YYYY)

Stationary combustion turbines located at a major source of HAP emissions are subject to 40 CFR Part 63, Subpart YYYY (NESHAP YYYY) pursuant to 40 CFR §63.6085.²² Because the Facility will be a major source of HAP emissions, the proposed combustion turbines will be subject to NESHAP YYYY.

The proposed advanced-class combustion turbines will be equipped with DLN combustors that are considered a lean premix combustor technology. The units will fire both natural gas and fuel oil. Per 40 CFR §63.6100, lean premix gas or fuel oil-fired combustion turbines are subject to an HCHO emission limitation of 91 parts per billion by volume on a dry basis (ppbvd) at 15% O₂, except during startup.²³

The proposed combustion turbines will comply with the NESHAP YYYY HCHO emissions limitation via the use of oxidation catalyst systems. Initial compliance will be demonstrated via performance testing per 40 CFR §63.6110, §63.6120, and §63.6130. Subsequent performance testing will be performed on an annual basis as required by 40 CFR §63.6115. Per 40 CFR §63.6125(a), each combustion turbine will be equipped with a system to continuously monitor the inlet temperature to the oxidation catalyst. Continuous compliance will be demonstrated by maintaining the 4-hour rolling average catalyst inlet temperature within the range suggested by the catalyst manufacturer. Catalyst inlet temperatures during startup periods will be excluded from the 4-hour rolling average calculation pursuant to Table 2 of NESHAP YYYY. Applicant will comply with the applicable notification, reporting, and recordkeeping requirements of 40 CFR §§ 63.6145, 63.6150, and 63.6155, respectively.

5.3.4 NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63, Subpart ZZZZ)

A stationary reciprocating ICE (RICE) located at a major or area source of HAP emissions is considered an affected source under 40 CFR Part 63, Subpart ZZZZ (NESHAP ZZZZ). The three proposed 2500-kWe emergency generator engine sets and two 315-bhp fire water pump engines will be considered new stationary RICEs subject to NESHAP ZZZZ as follows:

- Per 40 CFR §63.6590(a)(2)(i), a stationary RICE with a site rating of more than 500 brake hp that is located at a major source of HAP emissions is considered a new stationary RICE for which construction commences after 19 December 2002, which will include the three proposed emergency generator engines.
- Per 40 CFR §63.6590(a)(2)(ii), a stationary RICE with a site rating of less than 500 brake hp that is located at a major source of HAP emissions is considered a new stationary RICE for which construction commences after 12 June 2006, which will include the two proposed fire water pump engines.

The proposed emergency generator engines and emergency fire water pump engines are emergency stationary RICE as defined in 40 CFR §63.6675. Because the three proposed 2,500-kWe emergency

²² The stay of effectiveness on NESHAP YYYY was lifted by the EPA on 28 February 2022.

²³ The term “startup” for the purposes of NESHAP YYYY is defined at 40 CFR §63.6175. Startup begins at the first firing of fuel in the stationary combustion turbine. When operating in combined-cycle mode, startup ends when the stationary combustion turbine has reached stable operation or after 3 hours, whichever is less. When operating in simple-cycle mode, startup ends when the stationary combustion turbine has reached stable operation or after 1 hour, whichever is less.

generator engines are emergency stationary RICE over 500 hp, they are not subject to the emission limitations or operating limitations applicable to other large stationary RICE under NESHAP ZZZZ, per 40 CFR §63.6600(c). However, pursuant to §63.6590(b)(1)(i), the three proposed emergency generator engines, as they will be larger than 500 bhp, will be required to comply with the initial notification requirements specified in 40 CFR §63.6645(f). Fuel used in these RICE will meet the requirements of 40 CFR §63.6604(c), as discussed in Section 0. Operation of the emergency engines will be limited in accordance with 40 CFR §63.6640(f).

The proposed emergency fire pump engines meet the criteria under 40 CFR §63.6590 (c) and must comply with NESHAP ZZZZ by following the requirements for either NSPS IIII or NSPS JJJJ. No further requirements under NESHAP ZZZZ apply.

5.3.5 NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD)

New, reconstructed, and existing boilers and process heaters located at a major source of HAPs are subject to the requirements of 40 CFR Part 63, Subpart DDDDD (NESHAP DDDDD). After initial commissioning of the CCCT power trains, the auxiliary boiler will be subject to NESHAP DDDDD as a limited-use unit and a tune up will be required every five years. During initial commissioning of the CCCT power trains, the auxiliary boiler may not meet the limited-use boiler definition and would be required to comply with the requirements of NESHAP DDDDD applicable to a Gas 1 fired boiler with a heat input capacity greater than 10 MMBtu/hr, including the annual tune up requirement in 40 CFR §63.7540(a)(10).

The new fuel gas heaters will also be subject to NESHAP DDDDD as Gas 1 process heaters. The larger fuel gas heaters (EU18, EU19, and EU20) will be subject to annual tune-up requirements pursuant to 40 CFR §63.7540(a)(10). The smaller fuel gas heater (EU21) will require a tune up every five years per 40 CFR §63.7540(a)(12).

The initial notification of compliance status will be submitted within 60 days following completion of the initial tune up for each unit.

5.4 COMPLIANCE ASSURANCE MONITORING

The compliance assurance monitoring (CAM) provisions of 40 CFR Part 64 establish pollutant-specific requirements applicable to emission units at a Title V major source that meet all of the following criteria from 40 CFR §64.2(a):

- Are subject to an emission limit or standard, except for a standard promulgated under Section 111 (NSPS) or 112 (NESHAP) of the Clean Air Act that was proposed after 15 November 1990;
- Use a control device to achieve compliance with the emission limit or standard; and,
- Have potential pre-control device emissions²⁴ of the applicable pollutant in excess of the major source threshold.

Applicability of CAM will be assessed as part of the initial Title V operating permit application.

5.5 ACID RAIN PROGRAM

The federal Acid Rain Program (ARP) is codified at 40 CFR Parts 72 through 78 and incorporated into South Carolina regulations at SC R. 61-62.72. The ARP, which was implemented to reduce NO_x and SO₂ emissions from electrical generating facilities, comprises several primary components: the SO₂ allowance system at 40 CFR Part 73, NO_x emission limitations at 40 CFR Part 76, and monitoring provisions at 40 CFR Part 75. The proposed combustion turbines are not coal-fired utility units and therefore are not subject to the NO_x emission limitations at 40 CFR Part 76, per 40 CFR §76.1(a).

Per 40 CFR §72.6, a utility unit that is a new unit shall be an affected unit subject to the requirements of the ARP. An affected utility unit is a fossil fuel fired combustion device that commences construction on or after November 15, 1990, with a capacity to produce electricity for sale of equal to or more than 25 MW. The proposed combustion turbines do not qualify for the ARP exemptions at 40 CFR §72.6(b). As such, the combustion turbines will be subject to the ARP.

Pursuant to 40 CFR §72.30(b)(2)(iii) an owner or operator is required to submit a complete acid rain permit application for an affected facility at least 24 months before the unit begins to serve a generator with a nameplate capacity greater than 25 MWe. Applicant will submit the requisite acid rain permit application to the SCDES under separate cover at least 24 months prior to startup.

The proposed utility units meet the applicability criteria for the 40 CFR Part 75 monitoring requirements, per 40 CFR §75.2(a), i.e., they are subject to SO₂ emission allocations of 40 CFR Part 73. Applicant will install, certify, operate, and maintain CEMS for NO_x and O₂. Applicant will comply with the applicable SO₂ monitoring provisions of 40 CFR Part 75, which may involve the use of the optional SO₂ emissions data protocol for gas-fired and oil-fired units in Appendix D to 40 CFR Part 75 in lieu of installing a SO₂ CEMS, per 40 CFR §75.11(d)(2). Applicant will also comply with the applicable CO₂ monitoring provisions of 40 CFR Part 75, which may involve the use of the optional CO₂ emissions data protocol in Appendix G to 40 CFR Part 75, per 40 CFR §75.13(b).

²⁴ For the purposes of CAM, potential pre-control device emissions do not take into account any emission reductions achieved by the applicable control device but do take into account federally enforceable operating limits.

5.6 CHEMICAL ACCIDENT PREVENTION

The federal Chemical Accident Prevention program is codified at 40 CFR Part 68 and incorporated into South Carolina regulations at SC R. 61-62.68. Under 40 CFR §68.10, an owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process is subject to the requirements of the Chemical Accident Prevention rule. For this Project, Applicant will be using SCR systems to reduce NO_x emissions from the proposed combustion turbines. The SCR systems will use aqueous ammonia as the NO_x reducing reagent. Per 40 CFR §68.130, the threshold quantity for aqueous ammonia (with a concentration of 20% or greater) is 20,000 pounds. Applicant will be using an aqueous ammonia solution with an upper bound ammonia concentration of 19%. Therefore, the aqueous ammonia storage tanks will not be subject to 40 CFR Part 68.

5.7 CROSS STATE AIR POLLUTION RULE (CSAPR)

The Cross State Air Pollution Rule (CSAPR) of 40 CFR Part 97 and the SCDES implementing regulation 61-62.97 have been promulgated to address air pollution from upwind states that affect air quality in downwind states. Under CSAPR, power plant SO₂ and NO_x emissions are limited to reduce the interstate transport of air pollution. SO₂ and NO_x react in the atmosphere and contribute to the formation of fine particle pollution. NO_x also contributes to ground-level ozone formation.

South Carolina is one of the states covered under CSAPR. Specifically, South Carolina is covered by the following CSAPR programs:

- The CSAPR NO_x annual trading program at 40 CFR Part 97, Subpart AAAAA, per 40 CFR §52.38(a)(2)(i).
- The CSAPR SO₂ Group 2 trading program at 40 CFR Part 97, Subpart DDDDD, per 40 CFR §52.39(c)(1).

The proposed combustion turbines will each serve a generator with a nameplate capacity of more than 25 MWe and produce electricity for sale after 01 January 2005. As such, the combustion turbines will be considered CSAPR NO_x Annual Units and CSAPR SO₂ Group 2 Units pursuant to 40 CFR §97.404(a)(1) and 40 CFR §97.704(a)(1).

Applicant will comply with the applicable CSAPR monitoring and allocation requirements of these regulations for NO_x emissions using the CEMS installed for demonstrating compliance with NSPS Subpart KKKKa discussed in Section 5.2.6. Pursuant to 40 CFR §97.630(a), Applicant will determine SO₂ emissions according to the methods described in 40 CFR §75.11(e)(1) in lieu of installing an SO₂ CEMS because the new units meet the definition of gas-fired units in 40 CFR §72.2 and will fire pipeline natural gas as defined in 40 CFR §72.2.

5.8 STATE REGULATIONS

In addition to Federal air regulations, SC R. 61-62 establishes regulations applicable at the emission unit level (source specific) and at the facility level. Potentially applicable standards under SC R. 61-62 are discussed below. Generally applicable facility provisions (e.g., restrictions on open burning) have been excluded from this discussion.

5.8.1 Fuel Burning Operations (SC R. 61-62.5, Std. No. 1)

SC R. 61-62.5, Std. No. 1 (Std. 1) regulates opacity and emissions of PM and SO₂ from fuel burning operations. Fuel burning operations are defined in SC R. 61-62.1, §I(31) as:

Use of a furnace, boiler, device, or mechanism used principally, but not exclusively, to burn any fuel for the purpose of indirect heating in which the material being heated is not contacted by and adds no substance to the products of combustion.

The CCCT power trains, natural gas-fired fuel gas heaters, and auxiliary boiler will be subject to this rule. Per Section I(B) of Std. 1, emissions from these sources shall not exceed 20% opacity as determined by EPA Reference Method 9. Furthermore, pursuant to Section II(A) and Section III of Std. 1, particulate emissions are limited to 0.6 pounds/MMBtu, and SO₂ emissions are limited to 2.3 pounds/MMBTU, respectively. As shown in the emission calculations, emissions from these sources will comply with the applicable Std. 1 limits for particulates and SO₂.

5.8.2 Ambient Air Quality Standards (SC R. 61-62.5, Std. No. 2)

As a source of criteria pollutants, the Project is subject to the ambient air quality standards (AAQS) established under SC R. 61-62.5, Std. 2 (Std. 2).

Applicant has performed air dispersion modeling to demonstrate compliance with Std. 2 for PM₁₀, PM_{2.5}, NO_x, CO, and SO₂. The results, summarized in the Air Dispersion Modeling Report submitted under separate cover, demonstrate that the Project will comply with all applicable AAQS.

5.8.3 Waste Combustion and Reduction (SC R. 61-62.5, Std. No. 3)

SC R. 61-62.5, Std. No. 3 generally regulates all sources that burn any waste other than virgin fuel for any purpose. Fuel burning sources from the proposed project will only burn virgin fuel; therefore, this standard does not apply.

5.8.4 Emissions from Process Industries (SC R. 61-62.5, Std. No. 4)

SCDES Regulation 61-62.5, Std. No. 4, Section IX establishes opacity limits based on the construction or modification date of the source. SCDES Regulation 61-62.1 defines “Process Industry” as any source engaged in the manufacture, processing, handling, treatment, forming, storing, or any other action upon materials except fuel-burning operations.

The inlet chillers and delugable air-cooled heat exchangers are not subject to the PM emission limits in Standard No. 4, Section VIII (Other Manufacturing – process-weight-rate-based PM limitation) because the cooling equipment does not process material by weight. However, the inlet chillers and delugable cooling systems are subject to the 20% opacity limit as they are new sources which could exhibit opacity. The Facility will comply with the 20% opacity limit specified in Standard No. 4 for the cooling equipment.

All other Project equipment that could exhibit opacity are fuel burning sources and are therefore not subject to this regulation per the definition of Process Industry specified above.

5.8.5 Volatile Organic Compounds (SC R. 61-62.5, Std. No. 5)

SC R. 61-62.5, Std. No. 5 (Std. 5) regulates VOC emissions from specific process operations at facilities with the potential to emit greater than 100 tons/year of VOCs. None of the proposed processes, except for the fuel oil storage tanks, fall within the categories of operations subject to this standard.

Section II.O of Std. 5 applies to the storage of petroleum liquids in fixed-roof tanks with capacities of 40,000 gallons or greater that contain volatile petroleum liquids with true vapor pressures of 1.52 psi or higher. While each of the Facility's 3-million-gallon fuel oil storage tanks exceed the capacity threshold, the true vapor pressure of the stored fuel oil will be below 1.52 psi.²⁵ Therefore, the requirements of Section II.O do not apply to these tanks.

5.8.6 Control of Oxides of Nitrogen Emissions (SC R. 61-62.5, Std. No. 5.2)

SC R. 61-62.5, Std. No. 5.2 (Std 5.2) applies to any NO_x emitting source, that has not undergone a NO_x BACT analysis in accordance with SC R. 61-62.5, Std. No. 7, which meets one or more of the following criteria outlined in Section I(a)(1)-(3) of Std. 5.2:

- Any new source that is constructed after 25 June 2004;
- Any existing source where a burner assembly is replaced with another burner assembly after the effective date of this regulation, regardless of size or age of the burner assembly to be replaced; or,
- Any existing source that is removed from its presently permitted facility and moved to another permitted facility after the effective date of this regulation except existing sources that are transferred between facilities within the state under common ownership.

The equipment proposed for the Project, including the combustion turbines and supplemental duct burners, auxiliary boiler, fuel gas heaters, and emergency engines, have undergone a NO_x BACT review as a component of this PSD permit application. Therefore, pursuant to Section I(B)(4) of Std. 5.2, this equipment is exempt from this regulation.

5.8.7 Toxic Air Pollutants (SC R. 61-62.5, Std. No. 8)

SC R. 61-62.5, Standard. 8 (Std. 8) applies to sources that have the potential to emit South Carolina listed TAPs. However, pursuant to Section I of Std. 8, this regulation does not apply to fuel burning sources that only burn virgin fuel (i.e., natural gas and low-sulfur fuel oil). Therefore, the combustion turbines and supplemental duct burners, auxiliary boiler, emergency engines, and fuel gas heaters are exempt from Std. 8.

TAP emissions may be generated from the two (2) fuel oils ASTs and from fugitive emissions from piping components.¹³ Potential TAP emissions from these sources were estimated and shown to be well below the applicable air dispersion modeling *de-minimis* rates (see Appendix A-16). As such, no further analysis is required to demonstrate compliance with Std. 8 for TAP emissions.

5.8.8 NO_x Budget Program (SC R. 61-62.96)

²⁵ Typical SDS for No. 2 fuel oil: https://www.valero.com/sites/default/files/2019-12/sds_us_-_109-ghs_no2_fuel_oil_rev1_5-14_0.pdf

The SCDES's NO_x Budget Program regulation applies to units commencing operation on or after 01 January 1999 that serve a generator with a nameplate capacity greater than 25 MWe and produces electricity for sale. The rule was established to mitigate the interstate transport of ozone and to limit summertime NO_x emissions in order to combat seasonal ozone formation.

As units that will serve a generator that has a nameplate capacity greater than 25 MWe and produces electricity for sale, the new combustion turbines will be subject to the State's NO_x Budget Program. Applicant is familiar with the monitoring, recordkeeping and reporting requirements of the rule and will adopt these provisions for the new combustion turbines.

6.1 BACT OVERVIEW

BACT is defined in SC R. 61-62.5, Std. 7, §(B)(8) as:

An emissions limitation (including a visible emission standard) based on the maximum degree of reduction for each pollutant subject to regulation under the Clean Air Act which would be emitted from any proposed major stationary source or major modification which the Department, on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application of production processes or available methods, systems, and techniques, including fuel cleaning or treatment or innovative fuel combustion techniques for control of such pollutant. In no event shall application of BACT result in emissions of any pollutant which would exceed the emissions allowed by any applicable standard under 40 CFR Parts 60, 61, or 63.

If the Department determines that technological or economic limitations on the application of measurement methodology to a particular emissions unit would make the imposition of an emissions standard infeasible, a design, equipment, work practice, operational standard, or combination thereof, may be prescribed instead to satisfy the requirement for the application of BACT. Such standard shall, to the degree possible, set forth the emissions reduction achievable by implementation of such design, equipment, work practice or operation, and shall provide for compliance by means which achieve equivalent results.

EPA guidance²⁶ has clarified, and courts²⁷ have affirmed, that the establishment of BACT does not require the consideration of alternatives that would fundamentally redefine a project.

The intent of this Project is to install new, highly-efficient, advanced-class combustion turbines in a combined cycle arrangement at the Facility for baseload power generation. Precedent Agreements with Federal Energy Regulatory Commission (FERC) jurisdictional interstate natural gas pipelines have been executed to provide Firm Transportation service to the Facility. Natural gas will be the primary fuel for all fuel combustion sources at the Facility, with the exception of certain emergency equipment. Fuel oil will be used as a secondary fuel supply. This fuel selection provides the level of reliability and resiliency necessary to meet critical baseload power demands. The use of fuels other than natural gas and fuel oil would fundamentally redefine the Project and is not considered in the BACT analyses.

6.2 BACT APPLICABILITY

BACT applicability for a new major stationary source is outlined at SC R. 61-62.5, Std. 7, §(J)(2) as follows:

A new major stationary source shall apply BACT for each regulated NSR pollutant that it would have the potential to emit in significant amounts.

²⁶ PSD and Title V Permitting Guidance for Greenhouse Gases, EPA OAQPS, EPA-457/B-11-001, March 2011.

²⁷ Sierra Club v. EPA, 499 F. 3d 653, 654-655 (CA7 2007)

The Facility will have the potential to emit NO_x, CO, VOC, SO₂, PM, PM₁₀, PM_{2.5}, and H₂SO₄ in significant amounts (i.e., in excess of the SERs) and therefore BACT requirements apply to these pollutants (see Table 5-1). As a new major stationary source of regulated NSR pollutants with potential emissions of GHG greater than 75,000 tons/yr on a CO_{2e} basis, GHG emissions from the Facility are considered subject to regulation under SC R. 61-62.5, Std. 7, §(B)(52) and also subject to BACT requirements.

Table 6-1 | BACT Analysis Section Overview

Emission Unit ID	Emission Unit Description	PSD Pollutant	Report Section
EU01 – EU03	Three (3) combined cycle combustion turbine power trains, each power train consisting of an advance-class, dual fuel (natural gas and fuel oil), frame-type combustion turbine generator (CTG), a heat recovery steam generator (HRSG) with natural gas-fired supplementary firing (duct burner – DB) CTG1, CTG2, CTG3: each nominally rated heat input of ~4,115 MMBtu/hr when firing natural gas and ~3,495 MMBtu/hr when firing fuel oil at ISO conditions (i.e., 59F ambient temperature) DB1, DB2, DB3: each nominally rated heat input of ~851.5 MMBtu/hr firing natural gas at ISO conditions (i.e., 59F ambient temperature)	NO _x , CO, VOC, SO ₂ , PM/PM ₁₀ /PM _{2.5} , GHG, H ₂ SO ₄	Section 6.4
EU05	One (1) Natural Gas-Fired Auxiliary Boiler (~99.8 MMBtu/hr)	NO _x , CO, VOC, SO ₂ , PM/PM ₁₀ /PM _{2.5} , GHG	Section 6.5
EU18 – EU20	Three (3) Natural Gas-Fired Fuel Gas Heaters (~20 MMBtu/hr each)		
EU21	One (1) Natural Gas-Fired Low Pressure Fuel Gas Heater		
EU06, EU07, EU08	Three (3) Diesel-Fired Emergency Generators (~2,500 kWe each)	NO _x , CO, VOC, SO ₂ , PM/PM ₁₀ /PM _{2.5} , GHG	Section 6.6
EU 09A EU 09B	Two (2) Diesel-Fired Fire Water Pump Engines (315 bhp each)		
EU10	Natural Gas Fuel System Piping Components	VOC, GHG	Section 6.7
EU17	Sixty-Six (66) SF ₆ Circuit Breakers	GHG	Section 6.8
EU11, EU12, EU13	Three (3) Generator Belly Tanks (4,000 gallons each)	VOC	Section 6.9
EU14A EU14B	Two (2) Fire Water Pump Belly Tanks (300 gallons each)		
EU15 EU16	Two (2) Fuel Oil Storage Tanks (3,000,000 gallons each)		

6.3 BACT ANALYSIS METHODOLOGY

BACT is evaluated using a “top-down” approach that involves the following five steps.²⁸

Step 1 – Identify Available Control Options

The first step in BACT review is to identify all available control options for the emission unit and pollutant under evaluation. For this Project, available control options have been identified through a review of the following databases, as well as certain recently-submitted applications and associated permits, where available:²⁹

- EPA’s RACT/BACT/LAER Clearinghouse (RBLC)
- EPA’s National Electric Energy Data System (NEEDS) Database
- U.S. Energy Information Administration (EIA) Database
- California’s Air Resources Board (CARB) Database
- South Coast Air Quality Management District (SCAQMD) LAER/BACT Guidelines
- Bay Area Air Quality Management District (BAAQMD) BACT Guidelines

Control options may include post-combustion controls, work practices, fuel cleaning/treatment, etc. The EPA defines “available control options” as air pollution control technologies or techniques with a practical potential for application to the emissions unit and the regulated pollutant under evaluation.³⁰ A control option that has never been used in practice for the emission unit (or similar emission unit) and pollutant under evaluation is not considered an available control option. Also, a control option that is theoretical, in research and development, only deployed at pilot or test scale, or otherwise not commercially available is not considered an available control option.

This step in the process may identify a broad array of control options that have been applied to similar emission sources but may not be applicable to this Project. Per EPA guidance,

While Step 1 is intended to capture a broad array of potential options for pollution control, this step of the process is not without limits. EPA has recognized that a Step 1 list of options need not necessarily include inherently lower polluting processes that would fundamentally redefine the nature of the source proposed by the permit applicant. BACT should generally not be applied to regulate the applicant’s purpose or objective for the proposed facility.

In assessing whether an option would fundamentally redefine a proposed source, EPA recommends that permitting authorities apply the analytical framework recently articulated by the Environmental Appeals Board. Under this framework, a permitting authority should look first at the administrative record to see how the applicant defined its goal, objectives, purpose, or basic design for the proposed facility in its application. The underlying record will be an essential component of a supportable BACT determination that a proposed control technology redefines the source.^{26,27}

²⁸ New Source Review Workshop Manual: Prevention of Significant Deterioration and Nonattainment Area Permitting. EPA. October 1990 (Draft).

²⁹ The database review was limited to entries over the past 10 years.

³⁰ Top-Down Best Available Control Technology Guidance Document, EPA OAQPS, 15 March 1990 (Draft).

Accordingly, control options that would prevent the Project from fulfilling its intended purpose or fundamentally redefine the nature of the Project need not be considered in Step 1.

Step 2 – Eliminate Technically Infeasible Options

The second step in the BACT analysis is to evaluate the technical feasibility of control technologies identified in Step 1. EPA states the following with regard to technical feasibility:

A demonstration of technical infeasibility should be clearly documented and should show, based on physical, chemical, and engineering principles, that technical difficulties would preclude the successful use of the control option on the emissions unit under review.³⁰

Identified control options that are demonstrated to be technically infeasible may be eliminated from further consideration.

Step 3 – Rank Control Options

Identified control technologies deemed technically feasible under Step 2 are ranked in order of overall control effectiveness for the air pollutant under review. If the most effective control technology identified in Step 3 is selected as BACT, the analysis is complete. Otherwise, the process proceeds to Step 4.

Step 4 – Evaluate Impacts of Control Options

Under Step 4, remaining control options are evaluated on the basis of energy, environmental, and/or economic impacts. The energy impact analysis is based on the amount of energy that would be consumed (e.g., BTU, kWh) to implement the control option. The environmental impact analysis considers emissions of air pollutants as well as non-air environmental impacts (water, waste, etc.) associated with the use of the control option. The economic impact analysis assesses the cost effectiveness of the control option. Control options with excessive energy, environmental, and/or economic impacts may be eliminated.

Step 5 – Select BACT

The most effective control option remaining following Step 4 is considered BACT for the air pollutant and emission unit under review.

6.4 BACT ANALYSIS FOR COMBINED CYCLE COMBUSTION TURBINES

The following BACT analysis includes the full combined cycle combustion turbine (CCCT) power train (combustion turbine, HRSG, steam turbine, duct burners).

6.4.1 BACT Analysis for CCCTs, PM/PM₁₀/PM_{2.5}

Emissions of PM/PM₁₀/PM_{2.5} from the CCCTs result primarily from the presence of sulfur and non-combustible trace constituents in the fuel and combustion air and from the presence of incomplete combustion products that aggregate to form fine particulates. In addition, PM/PM₁₀/PM_{2.5} in the form of ammonium sulfate ((NH₄)₂SO₄) and ammonium bisulfate (NH₄HSO₄) may be generated due to reactions

with ammonia used in the SCR system. PM/PM₁₀/PM_{2.5} emissions from the CCCTs comprise both condensable and filterable particulates. It is conservatively assumed that all particulates emitted from the combustion turbines comprise PM_{2.5}.

BACT for PM/PM₁₀/PM_{2.5} emissions from the proposed combustion turbines is evaluated below.

6.4.1.1 Step 1 – Identify Available Control Options

The databases identified in Section 6.3 were consulted to identify options for reducing PM/PM₁₀/PM_{2.5} emissions from combustion turbines. The results of the database review are summarized in Appendix C-1a. Identified control options generally fall into the following categories:

- Low Ash/Low Sulfur Clean Burning Fuel
- Inlet Air Filtration
- Good Combustion Practices

Post-combustion control systems such as fabric filters, electrostatic precipitators, wet scrubbers, and cyclones are all control options commonly used to reduce PM/PM₁₀/PM_{2.5} emissions from stationary sources with fairly high outlet dust loading. However, the database and permit review did not identify any such technologies as having been used to control PM/PM₁₀/PM_{2.5} emissions from a CCCT. These PM control technologies are most suitable for high-dust applications such as solid fuel-fired combustion units and material handling. The outlet PM loading from combustion of natural gas or fuel oil in a combustion turbine is below the level at which these technologies would be effective. These technologies are most effective at controlling larger particles and the PM that results from combustion turbines is primarily less than 1 micron in diameter. For example, a fabric filter typically relies on some buildup of a filter cake to help provide control of dust; no such filter cake would form in this application. Thus, such technologies are not considered further in this analysis because they have not been demonstrated to be available for similar emission units.

6.4.1.1.1 Low Ash/Low Sulfur Fuels

PM/PM₁₀/PM_{2.5} emissions from CCCTs are influenced by the concentration of ash and sulfur compounds in the fuel(s) burned. Ash is directly emitted as PM/PM₁₀/PM_{2.5}, while sulfur compounds react in the exhaust stream to form H₂SO₄, (NH₄)₂SO₄, and NH₄HSO₄, which are all considered PM/PM₁₀/PM_{2.5}. Minimizing the concentration of ash and sulfur compounds in the fuel can reduce PM/PM₁₀/PM_{2.5} emissions from combustion turbines.

Natural gas and fuel oil³¹ are considered clean fuels, having no ash content or negligible ash content, respectively.^{32,33} Likewise, natural gas and fuel oil have low concentrations of sulfur compounds that would contribute to the formation of sulfur-related particulate emissions. Fuel oil is proposed to be used in the combustion turbines in a limited capacity. The duct burners will only combust natural gas.

³¹ The terms fuel oil, heating oil, and ultra low-sulfur diesel (ULSD) are used synonymously throughout this application.

³² *Emission Factor Documentation for AP-42 Section 1.4 Natural Gas Combustion*. EPA OAQPS. March 1998.

³³ AP-42, Section 1.3, *Fuel Oil Combustion*. May 2010.

The database review performed for this Project identified natural gas with a sulfur content ranging from 0.2 to 2 grain per 100 standard cubic feet (gr/100 scf) as an option for minimizing PM/PM₁₀/PM_{2.5} emissions from similar natural gas-fired combustion turbines. The natural gas to be used by the proposed CCCTs will have a sulfur content of less than or equal to 0.50 gr/100 scf – in the range of values identified during the database review.³⁴ The use of ULSD³⁵ was identified as an option for minimizing PM/PM₁₀/PM_{2.5} emissions from similar fuel oil fired combustion turbines. The fuel oil to be used by the proposed combustion turbines will meet ULSD specifications for sulfur content.

6.4.1.1.2 *Inlet Air Filtration*

Particulates in combustion air drawn into the combustion turbine compressor section pass through to the combustion turbine exhaust. Such particulates include pollen, dust, and other naturally occurring air contaminants. The use of inlet air filtration equipment minimizes the concentration of particulates drawn into the compressor section of the combustion turbine, thereby reducing the amount of particulates passing through to the exhaust.

6.4.1.1.3 *Good Combustion Practices*

Good combustion practices refer to design and operational practices that promote complete combustion of the fuel. These practices include the following: tuning of the air-to-fuel ratio in the combustion zone to maintain combustion efficiency and performance mitigating the quantity of unburned carbon; proper combustor design that promotes air and fuel mixing, enhances the combustion chamber residence time, and ensures sufficient temperature and turbulence; and, maintenance and operation in accordance with the manufacturer's specifications. The database review performed for this Project identified good combustion practices as a control option for PM/PM₁₀/PM_{2.5} emissions from similar combustion turbines.

6.4.1.2 *Step 2 – Eliminate Technically Infeasible Options*

All available control options identified in Section 6.4.1.1 (low ash/low sulfur clean burning fuel, inlet air filtration, and good combustion practices) are considered technically feasible.

6.4.1.3 *Step 3 – Rank Control Options*

The use of low ash/low sulfur fuels, such as natural gas and fuel oil, coupled with inlet air filtration and good combustion practices represents BACT for PM/PM₁₀/PM_{2.5} emissions from the proposed CCCTs. As such, a ranking is not required to establish the top control option.

6.4.1.4 *Step 4 – Evaluate Impacts of Control Options*

The most effective control options were selected in Step 3. Therefore, further evaluation is unnecessary. Regardless, there are no potential adverse energy, environmental, or economic impacts that would preclude the use of low ash/low sulfur fuels, inlet air filtration, and good combustion practices.

³⁴ Natural gas used by the CCCT power trains will be considered "pipeline natural gas" as defined at 40 CFR §72.2.

³⁵ The maximum sulfur content for ULSD is specified at 40 CFR §1090.305(b).

6.4.1.5 Step 5 – Select BACT

The foregoing analysis indicates that the use of low ash/low sulfur fuels (natural gas and fuel oil), inlet air filtration, and good combustion practices represent BACT for PM/PM₁₀/PM_{2.5} emissions from the proposed CCCTs. BACT limits associated with the selected control options are summarized below in Table 6-2. Note that these limits include operation of the duct burners when firing natural gas in the combustion turbines.

Table 6-2 | Proposed BACT PM/PM₁₀/PM_{2.5} Limits for CCCTs²⁰

Parameter	Fuel	BACT	Limit	Units	Compliance Demonstration Method
PM/PM ₁₀ /PM _{2.5} (filterable + condensable)	Natural Gas	Low ash/low sulfur clean burning fuel, inlet air filtration, good combustion practices	≤0.009	lb/MMBtu	EPA Reference Methods 5/202 or approved alternative (average of 3 test runs)
	Fuel Oil	Low ash/low sulfur clean burning fuel, inlet air filtration, good combustion practices	≤0.027	lb/MMBtu	EPA Reference Methods 5/202 or approved alternative (average of 3 test runs)

The proposed BACT limits are within the range of BACT determinations identified during the database review, which is summarized in Appendix C-1a. The limits are based on manufacturer's data for the CCCTs achieved via the use of low ash/sulfur fuels (natural gas and ULSD), inlet air filtration, and good combustion practices. The limits apply to all periods of normal operation. Applicant proposes to perform a one-time test to demonstrate initial compliance with the proposed limits. Ongoing compliance will be demonstrated by keeping records of the fuels fired and the maintenance performed on the inlet air filtration system. Good combustion practices will be demonstrated by using CO CEMS to monitor compliance with the CO BACT limit (low CO emissions will demonstrate good combustion).

Separate numeric BACT limits are not necessary for SU/SD or the alternative operating scenarios described in Section 3.1.5. During these periods of operation, Applicant will continue to utilize low ash/low sulfur clean burning fuels, inlet air filtration, and good combustion practices as BACT for PM/PM₁₀/PM_{2.5} emissions.

6.4.2 BACT Analysis for CCCTs, CO and VOC

Emissions of CO and VOC from the CCCTs are primarily associated with incomplete combustion. Incomplete combustion results from a low air to fuel ratio, low temperatures, and low residence times in the combustion region. VOC can also arise from impurities with larger molecular weights in the fuel.

BACT for CO and VOC emissions from the proposed CCCTs is evaluated below. The same control options were identified for CO and VOC, so the BACT discussions are combined to avoid duplication.

6.4.2.1 Step 1 – Identify Available Control Options

The databases identified in Section 6.3 were consulted to identify options for reducing CO and VOC emissions from CCCTs. The results of the database review are summarized in Appendix C-1c and Appendix C-1f. Identified control options generally fall into the following categories:

- Good Combustion Practices
- Clean Fuels
- Oxidation Catalyst

Although carbon adsorbers have been used to control VOC emissions from relatively low concentration gas streams from sources like storage tanks and process vents at chemical and refining facilities, they are limited to moderate flow rates and fairly low temperatures, which precludes their use on combustion sources. A carbon bed would also increase back pressure on a CCCT (reducing its efficiency or impairing its operation). Therefore, carbon adsorption is not considered available in this BACT analysis.

6.4.2.1.1 Good combustion practices

Good combustion practices are described in Section 6.4.1.1.3 and were identified in the database review as a control option for reducing CO and VOC emissions from combustion turbines. Such practices, especially maintenance and periodic tuning, ensure that adequate conditions for efficient combustion are maintained over time.

6.4.2.1.2 Clean Fuels

Natural gas is considered the “cleanest” of commercially available fuels and compared to other fuels, natural gas provides for lower emission rates for NO_x, CO, and VOC. Fuel oil is proposed to be used in the combustion turbines in a limited capacity as a secondary fuel. The duct burners will only combust natural gas.

6.4.2.1.3 Oxidation Catalyst

Oxidation catalysts serve as a post-combustion technology aimed at reducing CO and VOCs in the exhaust gas stream from CCCTs. These catalysts facilitate the oxidation process by providing a surface that encourages the reaction between CO and the oxygen naturally present in the exhaust, leading to the conversion of these pollutants into CO₂. Notably, this process does not rely on the introduction of additional reactants, as is the case with SCR systems. Oxidation catalysts are typically made of a precious metal and operate at temperatures in the range of 650 °F to 1,000 °F.³⁶ Technical factors relating to this technology include catalyst reactor design, optimum operating temperature, backpressure loss to the system, catalyst life, susceptibility to poisoning by fine particles in the exhaust gas which reduces the catalyst's effectiveness, and potential collateral increases in emissions of PM₁₀, PM_{2.5}, and H₂SO₄.

6.4.2.2 Step 2 – Eliminate Technically Infeasible Control Options

All available control options identified in Section 6.4.1.1 (good combustion practices, clean fuels, and oxidation catalyst) are considered technically feasible.

³⁶ Catalytic Oxidizer. *Technology Transfer Network Clearinghouse for Inventories & Emission Factors*. <https://www.epa.gov/chief>.

6.4.2.3 Step 3 – Rank Control Options

The use of good combustion practices and clean fuels (natural gas and fuel oil), coupled with oxidation catalyst, represents BACT for CO and VOC emissions from the proposed CCCTs. As such, a ranking is not required to establish the top control option.

6.4.2.4 Step 4 – Evaluate Impacts of Control Options

The most effective control options were selected in Step 3. Therefore, further evaluation is unnecessary.

6.4.2.5 Step 5 – Select BACT

The foregoing analysis indicates that the use of good combustion practices, clean fuels, and oxidation catalyst represent BACT for CO and VOC emissions from the proposed CCCTs. BACT limits associated with the selected control options are summarized below in Table 6-3.

Table 6-3 | Proposed CO & VOC BACT Limits for CCCTs (Normal Operations)

Parameter	Fuel	BACT	Limit	Units	Compliance Demonstration Method
CO	Natural Gas	Catalytic Oxidation and Good Combustion Practices	3.5	ppmvd at 15% O ₂	CO CEMS, 4-hr rolling average basis
	Fuel Oil		5	ppmvd at 15% O ₂	CO CEMS, 4-hr rolling average basis
VOC	Natural Gas		2	ppmvd at 15% O ₂	EPA Reference Method 25A or approved alternative (average of 3 test runs)
	Fuel Oil		2	ppmvd at 15% O ₂	

The proposed BACT limits are within the range of BACT determinations identified during the database review, which is summarized in Appendix C-1c and Appendix C-1f. These limits apply across all normal operating conditions except SU/SD and the alternative operating scenarios described in Section 3.1.5.

The CO limits in the RBLC for combustion turbines firing natural gas and/or ULSD that utilize good combustion practices and oxidation catalyst generally range from 1 to 9 ppmvd at 15% O₂. The RBLC database review did not identify any recently permitted Mitsubishi 501JAC advanced-class combustion turbine in a dual-fuel arrangement with fuel oil firing capabilities. Limits in the RBLC that are lower than proposed for this Project appear to be associated with other combustion turbine technologies (e.g., General Electric Vernova and/or Siemens Energy units). The proposed CO BACT limits for this Project match those applied in June 2024 to Georgia Power Company's Yates Steam-Electric Generating Plant Units 8, 9, and 10, which are dual-fuel (natural gas and fuel oil) Mitsubishi 501JAC combustion turbines, the same model combustion turbines proposed for this Project. Because lower limits are not demonstrated in practice for this Project's model combustion turbine, Applicant proposes the same BACT limits as applied to the Plant Yates units in Georgia.

Compliance with the CO limits will be demonstrated using a CO CEMS on a 4-hour rolling average basis, which aligns with the Plant Yates BACT determination for the same model combustion turbine equipment and approaches the level of stringency of the lower BACT limits with longer averaging times. During hours when multiple limits apply, the applicable limit for that hour will be based on the operating condition

corresponding to the highest limit. This approach is equivalent to that in NSPS KKKKa at 40 CFR §60.4320a(b)(1). The Facility will document the quality assurance/quality control procedures to be used to maintain proper operation of the CO CEMS.

Compliance with the VOC limits will be demonstrated via initial compliance testing using EPA Reference Method 25A (or approved alternative). Ongoing compliance with the CO limits, demonstrated via CEMS as discussed above, will serve as an indicator of good combustion and ongoing compliance with the VOC BACT limits. Applicant will also continuously monitor the inlet temperature to the catalyst, maintaining the inlet temperature within the range suggested by the catalyst manufacturer on a 4-hour rolling average basis as required by 40 CFR Part 63, Subpart YYYY.

Given that the oxidation catalyst will not achieve stable performance until optimal conditions are achieved, Applicant is proposing to establish secondary CO and VOC BACT limits for periods of SU/SD, as defined in Section 4.1.2. Specifically:

- Total CO emissions from all three (3) CCCT power trains combined will be limited to 2,745.41 tons on a rolling 12-month basis, including periods of SU/SD. Compliance with the proposed CO BACT limit will serve as an indicator for VOC; therefore, separate VOC limits are unnecessary.
- SU/SD operations will be limited to no more than 2,928.50 hours per rolling 12-month period, pooled across all three (3) of the CCCT power trains.

6.4.3 BACT Analysis for CCCTs, SO₂ and H₂SO₄

Emissions of SO₂ from the CCCTs result primarily from oxidation of sulfur compounds present in the fuel. Emissions of H₂SO₄ arise from conversion of SO₂ into SO₃, due to the high temperatures and catalytic activity of the SCR and oxidation catalyst. The SO₃ forms H₂SO₄ in the presence of water vapor in the exhaust.

BACT for SO₂ and H₂SO₄ emissions from the proposed combustion turbines is evaluated below. The same control options were identified for SO₂ and H₂SO₄, so the BACT discussions are combined to avoid duplication.

6.4.3.1 Step 1 – Identify Available Control Options

The databases identified in Section 6.3 were consulted to identify options for reducing SO₂ and H₂SO₄ emissions from combustion turbines. The results of the database review are summarized in Appendix C-1d and Appendix C-1g. The only identified control option within the database review was the use of low-sulfur fuels.

Flue gas desulfurization equipment (FGD scrubber) is a demonstrated technology for the removal of SO₂ from exhaust streams with pollutant concentrations ranging from 250 to 10,000 ppmv.³⁷ The sulfur content of natural gas and fuel oil is well below this level. A FGD scrubber is typically only used in combustion processes using fuels containing significant sulfur (e.g., coal or No. 6 fuel oil). A review of the RBLC

³⁷ https://www.epa.gov/sites/default/files/2021-05/documents/wet_and_dry_scrubbers_section_5_chapter_1_control_cost_manual_7th_edition.pdf

search results and of recently permitted facilities did not show any natural gas-fired CCCTs where FGD scrubber technology was utilized as an available BACT control option. Therefore, a FGD scrubber is not considered an available control technology for CCCTs and is excluded from this technology evaluation.

Because both SO₂ and H₂SO₄ originate from sulfur present in the fuel, using a fuel with a low sulfur content is the primary way to control these emissions from combustion. Low sulfur fuel was described above in Section 6.4.1.1.1. Using clean fuels like natural gas and fuel oil in the CCCTs results in low SO₂ and H₂SO₄ emission rates.

The database review performed for this Project identified natural gas with a sulfur content ranging from 0.25 to 5 grains per 100 standard cubic feet (gr/100 scf) as an option for minimizing SO₂ and H₂SO₄ from similar natural gas-fired CCCTs. Similarly, the use of low-sulfur fuel oil³⁸ was identified as the primary option for minimizing SO₂ emissions from similar fuel oil-fired combustion turbines.

6.4.3.2 Step 2 – Eliminate Technically Infeasible Control Options

The control option of low sulfur fuels identified in Section 6.4.3.1 is considered technically feasible.

6.4.3.3 Step 3 – Rank Control Options

The use of low sulfur fuels, specifically low sulfur natural gas and fuel oil that meet the ULSD composition standard, represents BACT for SO₂ and H₂SO₄ emissions from the proposed CCCTs. As such, a ranking is not required to establish the top control option.

6.4.3.4 Step 4 – Evaluate Impacts of Control Options

The most effective control options were selected in Step 3. Therefore, further evaluation is unnecessary. Regardless, there are no potential adverse energy, environmental, or economic impacts that would preclude the use of low sulfur fuels.

6.4.3.5 Step 5 – Select BACT

The foregoing analysis indicates that the use of low sulfur fuels represents BACT for SO₂ and H₂SO₄ emissions from the proposed CCCTs. The proposed BACT meets the requirements of NSPS KKKKa for SO₂. BACT limits associated with the selected control option are summarized below in Table 6-4.

Table 6-4 | Proposed SO₂ BACT Limits for CCCTs

Parameter	Limit	Units	Averaging Period	Compliance Demonstration Method
Natural Gas Sulfur Content	≤0.5	gr/100 scf	12-month rolling average	Periodic fuel monitoring and/or fuel supplier certifications.
Fuel Oil Sulfur Content	≤15	ppmw	12-month rolling average	Fuel supplier certifications.

The proposed BACT limits are within the range of values identified during the database review. Compliance with these limits will be achieved by firing the combustion turbines primarily on natural gas, limiting fuel

³⁸ The fuel oil used by the combustion turbines will meet the ULSD sulfur content specifications at 40 CFR §1090.305(b).

oil combustion to ≤ 720 hours/year, and only firing the HRSG duct burners on natural gas. Fuel supplier data will be used to demonstrate that fuel oil combusted in the combustion turbines meets the ≤ 15 ppmw specification.

6.4.4 BACT Analysis for CCCTs, NO_x

NO_x emissions from CCCTs can be understood through three primary components: thermal NO_x, prompt NO_x, and fuel NO_x. The formation of NO_x begins with the generation of nitric oxide (NO) during combustion, which can subsequently oxidize to nitrogen dioxide (NO₂) both in the combustion stack and in the atmosphere.

Thermal NO_x is produced when atmospheric nitrogen is oxidized at high temperatures during combustion. Its formation is influenced by several factors, including the combustion temperature, the time the gases are exposed to heat, and the air-to-fuel ratio. Generally, higher combustion temperatures lead to increased thermal NO_x emissions, making this an important aspect of emission control.

Prompt NO_x forms close to the combustion flame as intermediate combustion products are oxidized. Although it usually accounts for a smaller portion of total NO_x in typical combustion systems, prompt NO_x can become more significant under fuel-lean conditions. This is particularly relevant for low-NO_x and ultra-low-NO_x burners operating with lean fuel mixtures.

Fuel NO_x arises from the oxidation of nitrogen that is bound within the fuel itself during combustion. Unlike thermal NO_x the formation of fuel NO_x is less affected by combustion parameters such as temperature or residence time. However, the expected level of fuel-bound nitrogen in natural gas is expected to be negligible.

BACT for NO_x emissions from the proposed CCCTs is evaluated below.

6.4.4.1 Step 1 – Identify Available Control Options

The databases identified in Section 6.3 were consulted to identify options for reducing NO_x emissions from the CCCTs. The results of the database review are summarized in Appendix C-1e. Identified control options generally fall into the following categories:

- Good Combustion Practices
- Use of Clean Fuels
- Dry Low-NO_x Combustors
- Water or Steam Injection
- Selective Catalytic Reduction (SCR)
- Selective Non-catalytic Reduction (SNCR)

6.4.4.1.1 Good Combustion Practices

Good combustion practices were described above in Section 6.4.1.1 and involve design and practices that ensure complete combustion of fuel. Sudden increases in combustion conditions such as temperature and residence time can increase formation of NO_x. By ensuring complete combustion, and therefore uniform temperature and residence times, NO_x emissions are reduced.

6.4.4.1.2 *Use of Clean Fuels*

Natural gas generally has the lowest emission rates for NO_x of any commercially available fuel. Fuel oil, specifically fuel oil meeting the ULSD standard, offers the Facility a secondary fuel that will allow the Facility to continue to supply power to the grid if the supply of natural gas is limited.

6.4.4.1.3 *Dry Low NO_x (DLN) Combustors*

Conventional burners are fed fuel and air separately, leading to uneven mixing, uneven combustion, and therefore regions of higher temperature, leading to greater NO_x formation. In a DLN burner, the fuel and air are well mixed prior to any combustion, leading to higher uniformity in the combustor, and reducing formation of NO_x. DLN burners are well suited to combined cycle turbines, do not cause wear and tear, and are compatible with other technologies.³⁹

6.4.4.1.4 *Water or Steam Injection*

Delivery of water or steam to the combustion zone lowers combustion temperature, which reduces generation of thermal NO_x. Lower combustion temperatures also generate additional CO and can cause wear and tear on turbines that operate frequently, making this a better pollution control for less frequent types of operation, such as the limited periods when the proposed combustion turbines are being fired on fuel oil.⁴⁰

6.4.4.1.5 *Selective Catalytic Reduction*

SCR is a control technology used to convert NO_x into diatomic nitrogen (N₂) and H₂O using a catalyst. The reduction reactions used by SCR require oxygen and are most effective at oxygen levels above 2-3%. Base metals, such as vanadium or titanium, are often used for the catalyst due to their effectiveness as a control technology for NO_x and cost-effectiveness for use with natural gas combustion. In addition, a reductant such as anhydrous or aqueous ammonia is added to the flue gas and absorbed onto the catalyst.

The base metals used in SCR systems may lack thermal durability at high temperatures. This concern is mitigated in CCCT applications by placing the SCR reactor in a region of the exhaust train that is within the operating temperature of the base metal catalysts.⁴¹ Base metals used in SCR systems also have the potential to oxidize SO₂ into SO₃, which can lead to an increase in particulates in the form of ammonium sulfates.

6.4.4.1.6 *Selective Non-catalytic Reduction (SNCR)*

Selective non-catalytic reduction (SNCR) is a post-combustion control technology for NO_x emissions that uses a reduction-oxidation reaction to convert NO_x into N₂, H₂O, and CO₂. Like SCR, SNCR involves injecting ammonia (or urea) into the flue gas stream, which must be approximately 1400-2000°F for the chemical reaction to occur.

³⁹ See footnote 43, Sargent.

⁴⁰ Sargent and Lundy, "Combustion Turbine NO_x Control Technology Memo," prepared for Eastern Research Group with funding from the EPA, January 2022.

⁴¹ Airflow Sciences Corporation, "Ammonia Injection and Mixing Systems," February 2019.

SNCR can be more economically desirable because a catalyst is not required and, in theory, SNCR can control NO_x emissions with an efficiency similar to that of SCR. However, operating constraints on temperature, reaction time, and mixing often lead to less effective results when using SNCR in practice.

6.4.4.2 Step 2 – Eliminate Technically Infeasible Control Options

The control options identified in Section 6.4.4.1 comprising good combustion practices, use of clean fuels, DLN combustors, water or steam injection, and SCR are considered technically feasible.

The exhaust gases from the CCCTs are relatively cool as a result of converting as much thermal energy into power as possible, by passing the hot exhaust through each stage of the combined cycle power train. This results in an exhaust temperature that is lower than the temperatures an SNCR requires for operation. Therefore, SNCR is not a feasible control technology for the proposed CCCTs. This conclusion is supported by the database search.

6.4.4.3 Step 3 – Rank Control Options

The Project includes the installation of SCR, which is the most effective means of controlling NO_x on the CCCTs. Applicant will also employ good combustion practices, including the use of clean fuels, and DLN combustors for the CCCTs. When firing fuel oil, the combustion turbines will also utilize water injection.

6.4.4.4 Step 4 – Evaluate Impacts of Control Options

The most effective control options were selected in Step 3. Therefore, further evaluation is unnecessary.

6.4.4.5 Step 5 – Select BACT

The above analysis indicates that the use of SCR, good combustion practices, clean burning fuel, DLN combustors and water injection (when firing fuel oil), represent BACT for NO_x emissions from the proposed CCCTs. The proposed BACT limits associated with normal operation, exclusive of SU/SD and the alternative operating scenarios described in Section 3.1.5, are summarized below in Table 6-8.

Table 6-5 | Proposed BACT NO_x Limits for CCCT Power Trains

Parameter	Fuel	BACT	Limit	Units	Compliance Demonstration Method
NO _x	Natural Gas	SCR, DLN, clean fuels, good combustion practices	2	ppmvd @ 15% O ₂	NO _x CEMS, 24-hour rolling averaging basis
	ULSD	SCR, DLN, CTG water injection, clean fuels, good combustion practices	5	ppmvd @ 15% O ₂	NO _x CEMS, 24-hour rolling averaging basis

The results of the BACT database review are summarized in Appendix C-1e. Specifically, the proposed NO_x limit associated with natural gas firing is equivalent to the lowest identified in the RBLC. The 24-hour

averaging period aligns with recent determinations and is proposed to account for operational variability of the CCCT power trains. Additionally, the proposed BACT limits meet the requirements of NSPS KKKKa.

The proposed NO_x limit associated with fuel oil firing is among the lowest identified in the RBLC, with only five (5) entries having a lower value (4 ppmvd):

- Two (2) units at the Renovo Energy Center (PA-0334)
- One (1) unit at the Killingly Energy Center (CT-0161)
- One (1) unit at the PSEG Seward Generating Station (NJ-0084)
- One (1) unit at the Middlesex Energy Center (NJ-0085)

The Renovo Energy Center, Killingly Energy Center, and Middlesex Energy Center projects have all been cancelled and therefore the BACT limits associated with these facilities were never demonstrated.^{42,43,44} Only the Seward Generating Station unit was constructed, a General Electric H-class unit, which operates at a lower firing temperature and has a lower combustion turbine exhaust NO_x emission rate relative to the proposed combustion turbines. Additionally, the Seward Generating Station is located in a severe ozone nonattainment area. Given the significant differences between the Seward Generating Station unit and the proposed units, a NO_x limit of 5 ppmvd is more appropriate when firing fuel oil. Operation on fuel oil will be limited to no more than 720 hours/year as previously discussed.

Applicant expects that there will be some operating hours when multiple emissions standards may apply. For hours when multiple emission rates apply, Applicant proposes that compliance be determined by comparing to the highest applicable emissions standard, which is equivalent to the approach used in NSPS Subpart KKKKa at 40 CFR 60.4320a(b)(1) for similar situations.

Given that the SCR will not achieve stable performance until optimal conditions are achieved, Applicant is proposing to establish secondary NO_x BACT limits for periods of SU/SD, as defined in Section 4.1.2, and the alternative operating scenarios discussed in Section 3.1.5. Specifically, NO_x emissions from each CCCT will be limited to less than or equal to 96 ppmvd at 15% O₂ on a 4-hour rolling average basis, consistent with the NSPS KKKKa limit applicable to similarly sized units operating at less than 70% of the base load rating.⁴⁵

6.4.5 BACT Analysis for CCCTs, GHG

The combustion of natural gas and fuel oil in the proposed combustion turbines will result in emissions of CO₂, CH₄, and N₂O, which are all considered GHGs under SC R. 61-62.5, Std. 7 §(B)(52)(a). CO₂ emissions

⁴² https://www.gem.wiki/Renovo_energy_center

⁴³ https://www.gem.wiki/Killingly_energy_center

⁴⁴ https://www.gem.wiki/Middlesex_energy_center

⁴⁵ Note that the NSPS KKKKa limit would also apply during online fuel transfers and other alternative operating scenarios where a unit is operating below 70% of its baseload rating.

account for a significant majority (99.99%)⁴⁶ of combustion GHG emissions and are indicative of efficient combustion.⁴⁷ BACT for GHG emissions from the proposed CCCTs is evaluated below.

6.4.5.1 Step 1 – Identify Available Control Technologies

The databases identified in Section 6.3 were consulted to identify options for reducing GHG emissions from the proposed CCCT power trains. The results of the database review are summarized in Appendix C-1b. Identified control options generally fall into the following categories:

- Use of Clean/Low-Carbon Fuels
- Energy Efficient and Inherently Lower-Emitting Processes/Work Practices/Designs
- Good Combustion Practices

Other control options considered include the use of hydrogen as a fuel and carbon capture and sequestration (CCS). All control options identified are discussed in the following sections.

6.4.5.1.1 Use of Clean/Low-Carbon Fuels

The use of clean and low-carbon fuels, such as natural gas, was identified as a GHG control option during the database review. Natural gas and fuel oil were both considered “clean fuels” for the purposes of establishing the BSER for NSPS TTTT and NSPS TTTTa.⁴⁸

The amount of CO₂ produced when a fossil fuel is burned is a function of the carbon content of the fuel. Natural gas primarily consists of CH₄, which has a high energy content and the lowest carbon intensity amongst available fossil fuels. The proposed combustion turbines will be fired primarily on natural gas and the HRSG duct burners will be fired exclusively on natural gas. In order to maintain the baseload power generation for the power grid during periods of natural gas curtailment or disruption, the proposed combustion turbines must have the ability to be fired on fuel oil. Fuel oil will only be used as a secondary fuel and fuel oil combustion will be limited to 720 hours per year per turbine.

6.4.5.1.2 Energy Efficient and Inherently Lower-Emitting Processes/Work Practices/Design

U.S. EPA indicates in its 2011 PSD and Title Permitting Guidance for Greenhouse Gases⁴⁹ that inherently lower-polluting processes are appropriate for consideration as available control alternatives. Ways to incorporate energy efficiency (good combustion practices) into a CCCT project include, but are not limited to, the following: installing efficient CTGs, limiting hours in simple cycle mode, and employing a maintenance program.⁵⁰ The following are examples of inherently lower-emitting processes, work practices, and design:

⁴⁶ Represents the percentage of total GHG emissions (sum of CO₂, CH₄, and N₂O) that is CO₂. Refer to Appendix A-4.

⁴⁷ In addition to emissions generated during fuel combustion, minor quantities of CO₂ and N₂O may be generated from the post-combustion air pollution controls used for this Project. Additional CO₂ may be formed due to the oxidation of CO in the oxidation catalyst. Additional N₂O may be formed in the SCR depending on exhaust conditions and the type of catalyst material used. The additional CO₂ and N₂O formed in the post-combustion air pollution control system will be a small component of the overall GHG emissions from the CCCT power trains.

⁴⁸ For example: 80 FR 64515, October, 23, 2015.

⁴⁹ <https://www.epa.gov/sites/default/files/2015-12/documents/ghgpermittingguidance.pdf>

⁵⁰ https://www.epa.gov/system/files/documents/2022-04/epa_ghg-controls-for-combustion-turbine-egus_draft-april-2022.pdf

- Use of CTGs with the latest design to maximize fuel energy efficiency for electrical generation,
- Maximizing the heat recovery in the HRSG,
- Flue gas oxygen monitoring, and
- Insulation.

The implementation of a maintenance program for the CCCTs will not only retain the energy efficiency of the units but also help minimize GHG emissions. Maintenance programs may include the following:

- Periodic Maintenance and Tuning – Follow manufacturer recommendations regarding inspection and maintenance activities to maintain/restore optimal efficiency;
- Reduce Heat Losses – Install insulation on both the combustion turbine and HRSG components to minimize heat loss, thereby increasing energy efficiency via heat recovery;
- Instrumentation and Controls – Employ the use of the latest computer-based control systems to monitor and optimize fuel and air flows. This optimizes combustion operations, producing the maximum amount of power for the least amount of fuel burned while maintaining emissions performance over a range of load and ambient temperature conditions;
- Steam Cycle Efficiency – Employ a reheat steam cycle to increase the amount of power generated from the recovered waste heat;
- Heat Exchanger Design – Select a design that optimizes waste heat transfer from the combustion turbine exhaust gas while minimizing corrosion at the outlet of the HRSG;
- Minimize Fouling of Heat Exchanger Surfaces – Employ inlet air filtering, proper feed water chemistry, and tube surface cleaning practices. This minimizes fouling of the heat exchanger surfaces and maintains the maximum waste heat exchange between the combustion turbine exhaust gas and the HRSG thereby maintaining/restoring optimal efficiency; and/or
- Reduce Steam Losses – Follow an inspection routine that checks for and repairs steam leaks from valves, flanges, and piping to maintain/restore optimal efficiency.

6.4.5.1.3 *Good Combustion Practices*

Good combustion practices for CCCTs include the following:

- Good air/fuel mixing in the combustion zone
- Sufficient residence time to complete combustion
- Proper fuel gas supply system design and operation in order to minimize fluctuations in fuel gas quality
- Good burner maintenance and operation practices
- High temperatures and low oxygen levels in the primary combustion zone
- Overall excess oxygen levels high enough to complete combustion while maximizing thermal efficiency

As with other types of fossil fuel-fired systems, combustion control is the most effective means for reducing CH₄ emissions. Combustion controls combined with good combustion practices and minimization of time spent in non-steady state operations minimize uncombusted hydrocarbons (CH₄). Combustion efficiency is related to the three "T's" of combustion: time, temperature, and turbulence. These components of combustion efficiency are designed into the combustion turbines to maximize fuel efficiency and reduce

operating costs. Therefore, combustion control is accomplished primarily through unit design and operation.

6.4.5.1.4 *Carbon Capture and Sequestration*

Carbon capture and sequestration (CCS), or carbon capture, utilization, and/or sequestration (CCUS), is an emerging technology that could theoretically be utilized to mitigate CO₂ emissions from utility scale CCCTs. CCS consists of capturing and separating CO₂ from combustion exhaust gases and ultimately depositing the CO₂ within underground geological formations. These formations include oil and gas reservoirs, un-minable coal seams, and deep saline formations – geological structures which have stored these resources for millions of years.

Various technologies are theoretically available to capture CO₂ at the source. These technologies fall into three categories: post-combustion carbon capture, pre-combustion carbon capture, and oxy-fuel combustion systems. Post-combustion carbon capture involves the use of various sorbents and solvents to separate CO₂ from combustion gases.⁵¹ Pre-combustion technologies are still in very early stages of development and involve the gasification of fuels to separate out the CO₂. Oxy-fuel combustion consists of burning the fuel in a nearly pure-oxygen environment rather than regular air, which results in a more concentrated stream of CO₂ that can be captured using post-combustion carbon capture techniques.

According to a report⁵² published by the United States Department of Energy (U.S. DOE), existing commercial facilities capable of capturing the largest quantities of CO₂ were all associated with gas streams containing relatively high concentrations of CO₂ (25%-70%) such as natural gas processing operations and synthetic gas production. CO₂ concentrations in CCCT exhaust streams tend to be considerably more dilute and thus would require significant quantities of post-combustion sorbents and, incidentally, substantial operating capital to effectively capture CO₂ at-scale. Additionally, trace impurities present in the exhaust gas further complicate the capturing process and can quickly degrade the sorbents resulting in a significant reduction in capture efficiency.

Captured CO₂ must be transported to a site capable of safely and effectively storing the material. According to the report published by the U.S. DOE cited above, there are currently no CO₂ pipelines in the general vicinity of the Facility. As a result, an extensive and protracted construction project would have to be undertaken to install the requisite infrastructure to transport the captured CO₂. The cost of construction and operation of such infrastructure would be significant and is not within the economic model for this Project.

Upon reaching its storage destination, transported CO₂ would need to be injected deep underground for geologic storage. USGS has studied portions of the Atlantic Coastal Plain for prospective CO₂ storage, and while no oil fields typically considered for CCS/CCUS are in the area, the study did identify potential saline aquifers in the region.^{53, 54} Despite these studies, no CCS/CCUS storage infrastructure has been initiated,

⁵¹ Other separation/capturing technologies do exist but are used less frequently. These include membrane separation and cryogenic distillation.

⁵² *A Review of the CO₂ Pipeline Infrastructure in the U.S.*, United States Department of Energy, DOE/NETL-2014/1681. 21 April 2015.

⁵³ <https://energy.usgs.gov/co2public/>, accessed 27 October 2025.

⁵⁴ Craddock, et al, 2018, Geologic framework for the national assessment of carbon dioxide storage resources—Atlantic Coastal Plain and Eastern Mesozoic Rift Basins, U.S. Geological Survey Open-File Report.

let alone completed, within at least 350 miles of the Project site.^{55, 56 57} At present, CO₂ is not geologically stored in South Carolina and identification of a suitable storage site would require an intensive and costly engineering evaluation. At present, CO₂ storage infrastructure is not considered available for this Project.

NSPS TTTTa established CO₂ standards for new stationary combustion turbines that become effective for the 12-month period beginning after December 2031, referred to as the Phase 2 standards. The Phase 2 standards for base load combustion turbines assume the use of CCS. On June 17, 2025, the EPA proposed to repeal NSPS TTTT and NSPS TTTTa entirely based on the U.S. EPA's lack of GHG regulatory authority under section 111 of the CAA or, as an alternative, limit the repeal to the Phase 2 standards of NSPS TTTTa requiring the use of CCS based on technical shortcomings in its BSER analysis. The proposal indicates that EPA erred when it established CCS as the BSER because CCS has not yet been adequately demonstrated, citing operational, reliability, and performance issues at the Boundary Dam and Petra Nova facilities, two power plants in North America where CO₂ capture has been attempted.⁵⁸ Both of these carbon capture projects, which are associated with relatively small coal-fired power generation assets, have: experienced significant challenges achieving stated objectives, only been able to process a portion of exhaust gases from the associated power generation assets, and reported significant downtime relative to generation asset operation.⁵⁹

The Boundary Dam and Petra Nova projects demonstrate that CO₂ capture technology has not developed to the point where it could be considered available for reliable, long-term, use at the commercial scale that would be necessary for this Project. Even if adequate CO₂ capture technology was available (which is not the case), the lack of CO₂ transportation and storage/use infrastructure in the region would render the use of such technology infeasible for the Project. Finally, were all components of CCS (capture, transportation, and storage/use) to be both available and technically feasible (which again is not the case), implementation of CCS for this Project would likely be economically infeasible. For these reasons, CCS is not considered further in this BACT evaluation.

6.4.5.1.5 *Hydrogen/Hydrogen Co-Firing*

In the proposal for NSPS TTTTa, EPA considered establishing co-firing with low GHG-hydrogen as a potential GHG emission reduction option.⁶⁰ However, this control option was not included in the final rule and is not part of the BACT floor established by NSPS TTTTa.⁶¹ Hydrogen is not an available fuel in the large quantities required for the proposed Facility as there is no existing or proposed infrastructure in the vicinity of the Project to generate and convey hydrogen in the quantities that would be necessary to fuel, or partially fuel, a baseload power plant. The Facility is being designed to utilize natural gas as a primary fuel and fuel oil as a secondary fuel. The pipeline infrastructure being constructed by others to supply firm transportation of natural gas to the Facility will also meet critical natural gas supply demands of other

⁵⁵ <https://americancarbonalliance.org/map-of-us-pipelines/>, accessed 27 October 2025.

⁵⁶ <https://www.catf.us/ccsmapus/>, accessed 27 October 2025.

⁵⁷ Wernette, Southern States Energy Board. Southeast Regional Carbon Utilization and Storage Acceleration (SECARB-USA) Initiative: An Overview. https://netl.doe.gov/sites/default/files/netl-file/24CM/24CM_CTS3_6_Wernette2.pdf

⁵⁸ 90 FR 25769, June 17, 2025.

⁵⁹ 90 FR 25769 – 25772, June 17, 2025.

⁶⁰ 88 FR 33240, May 23, 2023.

⁶¹ 89 FR 39805, May 2, 2024.

customers in the region, demands that would not be met by an alternative hydrogen pipeline. Given that hydrogen is not an available GHG control option and would fundamentally redefine the Project, which is being designed to utilize natural gas and fuel oil, consideration of hydrogen fuels is excluded from this technology review.

6.4.5.2 Step 2 – Eliminate Technically Infeasible Options

All available control options are considered technically feasible - clean/low-carbon fuels, energy efficient and inherently lower-emitting processes/work practices/designs, and good combustion practices. As discussed above, neither CCS or the use of hydrogen/hydrogen co-firing are considered available for this Project and even if they were available (which is not the case), they would not be technically feasible.

6.4.5.3 Step 3 – Rank Remaining Control Technologies by Control Effectiveness

All available and technically feasible control options are being proposed for this Project. Therefore, no ranking is necessary.

6.4.5.4 Step 4 - Evaluate Economic, Environmental, and Energy Impacts of Technically Feasible Control Technologies

The most effective control options were selected in Step 3. Therefore, further evaluation is unnecessary.

6.4.5.5 Step 5 – Proposed BACT

Based on Steps 1 through 4 of the top-down BACT analysis presented above, Applicant proposes the use of clean/low-carbon fuels, energy efficient and inherently lower-emitting processes/work practices/designs, and good combustion practices as BACT. These available control technologies include the following:

- Combustion turbine energy efficiency design, practices, and procedures:
 - Efficient combustion turbine design;
 - Periodic combustion turbine burner tuning;
 - Reduction in heat loss (i.e., insulation); and
 - Instrumentation and controls.
- HRSG energy efficiency design, practices, and procedures:
 - Efficient heat exchanger design;
 - Reduction in heat loss (i.e., insulation of HRSG); and
 - Repair of steam leaks identified during periodic facility inspections.
- Plant-wide energy efficiency design, practices, and procedures:
 - Fuel gas preheating;
 - Drain operation;
 - Maximizing HRSG design to allow for the most efficient combination of CTG and STG design;
 - Monitoring flue gas in the design of the unit through tune-ups to minimize excess oxygen within safety limits in order to maximize thermal efficiency; and

- Addition of extra insulation of the combustion turbine combustion section and HRSG compared to older designs will minimize heat losses, thereby reducing fuel input and in turn reduce GHG emissions.
- Clean and low carbon fuels.

To determine the GHG emissions limits that represent BACT, Applicant consulted with the Original Equipment Manufacturer (OEM), (Mitsubishi) and also performed a comprehensive search of recently permitted facilities and the RBLC database. A summary of the RBLC search can be found in Appendix C-1e. The BACT determinations for similar combined cycle units, as detailed in Appendix C-1e, support a BACT selection of clean and low-carbon fuels, along with the application of good combustion, operating, and maintenance practices identified above.

One important factor considered in setting numeric GHG BACT limitation is the OEM performance data for the new combustion turbines. The OEM data indicates each turbine's performance levels at various load levels and operating factors based on extensive performance testing of the turbine by the OEM. As one might expect, the turbine efficiencies with the best (lowest) CO₂ emissions rate occurred when the turbines are operated under optimal (full-load, steady-state) conditions. By contrast, turbine efficiencies decline and CO₂ emissions increase when the turbines are operated under real-world operating conditions, such as at reduced and fluctuating load levels, hot ambient temperatures, efficiency degradation, and use of duct burners.

Important factors that the Applicant considered in setting the proposed numeric GHG BACT limitation include the anticipated duty cycle and operating conditions of the new combustion turbines. Defined as the average operating capacity factor, the duty cycle is a function of "how much the combustion turbine is operated relative to how much it could potentially have been operated" in any given hour.⁶² For example, if a turbine unit operates on average 75% of the unit's maximum generating capacity during each hour of operation, the duty cycle would be 75% regardless of whether the unit operated at annual capacity factor of 20% or 70%.⁶³ The turbine efficiency, and hence the CO₂ performance levels, will therefore decline when the proposed combustion turbines are operated at lower duty cycles, instead of at hourly maximum generating capacity levels for extended periods of time. Other real-world operating conditions affecting the performance of the proposed new combustion turbines include fluctuating load levels to meet shifting energy demand and facilitating renewable integration, hot ambient temperatures, turbine efficiency degradation over time, and the use of duct burners.

Another important consideration in setting the numeric GHG limitation is the CO₂ NSPS limitation that would apply to the new combustion turbines. Unfortunately, the regulatory environment surrounding the NSPS TTTTa standard is uncertain at this time. The regulation was originally promulgated on 09 May 2024, with an effective date of 02 July 2024. However, on 17 June 2025, EPA published a proposed revision that could significantly alter the regulation or repeal it in its entirety. OEMs, the regulated community, and others have submitted extensive technical comments demonstrating that the Phase 1 CO₂ performance standards are—at best—only achievable by certain large combustion turbines operating at only near full-load output levels under optimal operating conditions. However, as discussed above, BACT must represent all operating conditions under projected load levels and real-world operating conditions over

⁶² See 89 Fed. Reg. at 39,912, n.726.

⁶³ EPA defines "annual capacity factor" as the ratio between actual heat input to an EGU during a calendar year and the potential heat input to the EGU had it operated for 8,720 hours during a calendar year at the base load rating. 40 C.F.R. § 60.550a.

the life of the equipment. The establishment of mass-based limits will ensure that the selected technology and determined emissions limits are achievable in practice and can be maintained consistently under all expected load and operating scenarios that the equipment will encounter throughout its operational life.

As required by the regulatory definition for BACT presented at SC R. 61-62.5, Std. No. 7 §(B)(8), the proposed approach ensures that the proposed BACT limitations set for the GHG emissions from the new combustion turbines do not “exceed the emissions allowed by” the currently applicable standards under NSPS Subpart TTTTa. Specifically, Applicant proposes a mass-based emission limitation of 2,610,340 tons CO₂/12-month period/turbine, which is calculated based on the estimated turbine efficiency levels and the CO₂ emissions that each new combustion turbine can achieve at its design parameters under projected load levels, duty cycles, and real-world operating conditions.

The proposed approach sets an annual CO₂ tonnage limitation that is within the range of values in the RBLC, which are in various units of measure, as well as consistent with the 800-1250 lb CO₂/MW-hr values and 120-160 lb CO₂/MMBtu values that form the basis of NSPS TTTTa. However, to ensure full compliance with the requirement of SC R. 61-62.5, Std. No. 7 §(B)(8) that the CO₂ BACT limitation may not be higher (less stringent than) the applicable NSPS, Applicant proposes that the permit contain two CO₂ BACT emission limitations. One limitation is a mass-based emission limitation (as described above) that is set for each new combustion turbine at 2,610,340 tons of CO₂ on a 12-month rolling average period. The other limitation is any applicable NSPS for limiting CO₂ emissions from the new combustion turbine, as codified at 40 CFR. Part 60, including without limitation, as applicable, under NSPS TTTTa or NSPS TTTT. Applicant requests inclusion of the following language in the permit:

If CO₂ and other GHGs are no longer regulated NSR pollutants as defined in SC R 61-62.5(B)(44), then these two GHG BACT limitations shall no longer apply to the affected equipment at the Facility.

The addition of this language in the permit will ensure that the units meet the applicable GHG limits in effect under the current NSPS TTTTa regulation as required under SC R. 61-62.5, Std. No. 7 §(B)(8) and set the floor for the GHG BACT as required by SC R. 61-62.5, Std. No. 7 §(B)(8). Actual CO₂ emissions will be calculated per the provisions of 40 CFR Part 75 for comparison to the mass-based limit.

6.5 BACT ANALYSIS FOR AUXILIARY BOILER AND FUEL GAS HEATERS

The Project will include the installation of a natural gas-fired auxiliary boiler (~99.8 MMBTU/hr). The auxiliary boiler will provide supplementary steam generation during start up and shut down, emergencies, or other periods when additional steam is needed for the power generation cycle.

The results of the BACT analysis for the auxiliary boiler and the fuel gas heaters are substantially similar as they both rely on similar technology. Therefore, the discussion of the available, technically feasible, and selected BACT are combined in this section to reduce duplication.

The following analysis demonstrates that an annual heat input-based capacity factor of 10% is a component of the multi-pollutant BACT for the auxiliary boiler. Additionally, as discussed elsewhere in this application, the auxiliary boiler will be limited to no more than 2,000 hours/year of operation. The auxiliary boiler will need to operate at higher loads relative to normal, post-commissioning, operations in order to

support commissioning of the CCCTs. As such, these operational limits exclude periods of initial CCCT power train commissioning. The auxiliary boiler will comply with the applicable requirements of NESHAP DDDDD, including during initial CCCT power train commissioning.

6.5.1 BACT Analysis for Auxiliary Boiler and Fuel Gas Heaters, PM/PM₁₀/PM_{2.5}, SO₂

The control options identified during the database review for PM/PM₁₀/PM_{2.5}, and SO₂ were substantively similar. As such, the following discussion covers BACT for PM/PM₁₀/PM_{2.5}, and SO₂ emissions from the proposed auxiliary boiler and fuel gas heaters in a combined analysis.

Emissions of particulate from fuel combustion in the auxiliary boiler and fuel gas heaters result from the presence of impurities in the fuel, such as ash or incomplete combustion of hydrocarbons. Sulfur oxides/SO₂ result from sulfur in the fuels reacting with oxygen in the air during combustion.

6.5.1.1 Step 1 – Identify Available Control Options

To identify available PM/PM₁₀/PM_{2.5} and SO₂ control options for natural gas boilers and heaters, a review of the various databases discussed under Section 6.3 was conducted for boilers and heaters ranging in size from less than 10 MMBtu/hr up to 250 MMBtu/hr, burning gaseous fuels, liquid fuels, or biomass. Appendices C-2a, C-2d, C-6a, and C-6d provide a summary of PM/PM₁₀/PM_{2.5} and SO₂ control options identified during the database review. The methods identified are generally summarized as follows:

- Use of low ash/sulfur fuels
- Good combustion practices

No add-on control devices for PM/PM₁₀/PM_{2.5} or SO₂ were identified during the database review and thus are not considered in this BACT analysis. Several facilities included limited hours of operation as a pollution control for several pollutants (AK-0083, AK-0085, and WI-0306).

Fabric filters, electrostatic precipitators (ESPs), wet ESPs, and scrubbers are capable of reducing PM, PM₁₀, and PM_{2.5} emissions from combustion sources with high outlet dust loading. However, based on a review of the RBLC database, there are no examples of fabric filter baghouses, ESPs, WESPs, and/or scrubbers having been applied on natural gas-fired auxiliary boilers or fuel gas heaters of similar sizes to the proposed units in the Project. These PM control technologies are most suitable for high-dust applications such as solid fuel-fired combustion units and are ineffective for combustion sources with low particulate levels. The outlet PM loading from combustion of natural gas is below the level at which these technologies would be effective. These technologies are most effective at controlling larger particles and the PM that results from natural gas combustion is primarily less than 1 micron in diameter. For example, a fabric filter typically relies on some buildup of a filter cake to help provide control of dust; no such filter cake would form in this application. Thus, such technologies are not considered further in this analysis as they have not been demonstrated to be available for use in practice for similar emission units.

6.5.1.1.1 Low Ash/Low Sulfur Fuels

Low sulfur/low ash fuels were discussed above for the CCCT power trains, in Section 6.4.1.1. The same clean pipeline quality natural gas used for the CCCT power trains will be used for the auxiliary boiler and fuel gas heaters.

6.5.1.1.2 *Good Combustion Practices*

Good combustion practices refer to design and operational practices that promote complete combustion of the fuel. These practices include the following: tuning of the air-to-fuel ratio in the combustion zone to mitigate the quantity of unburned carbon; proper burner design that promotes air and fuel mixing and ensures sufficient temperature and turbulence; and maintenance and operation in accordance with the manufacturer's specifications.

6.5.1.2 *Step 2 – Eliminate Technically Infeasible Options*

Good combustion practices and low ash/low sulfur fuels are considered technically feasible control methods for the reduction of PM/PM₁₀/PM_{2.5} and SO₂ emissions from the natural gas-fired auxiliary boiler and fuel gas heaters.

6.5.1.3 *Step 3 – Rank Control Options*

Applicant plans to use a combination of low ash/low sulfur fuels and good combustion practices, which were the only available control methods identified during the RBLC review. Therefore, ranking control methods is unnecessary.

6.5.1.4 *Step 4 – Evaluate Impacts of Control Options*

The Facility will use a combination of all remaining control methods from Step 3. Therefore, further evaluation is unnecessary. Regardless, there are no potential adverse energy, environmental, or economic impacts that would preclude the use of any of these control methods.

6.5.1.5 *Step 5 – Select BACT*

Supported by the foregoing analysis, Applicant proposes good combustion practices and combustion of natural gas with a sulfur content ≤ 0.5 gr/scf as BACT for the auxiliary boiler and fuel gas heaters. Additionally, a 10% capacity factor and a 2,000 hours/year operational limit is proposed for the auxiliary boiler, excluding periods of initial CCCT power train commissioning. These control options are consistent with recent determinations as identified in the RBLC database search, which is summarized in Appendix C, as well as the applicable requirements of NSPS Dc discussed in Section 5.2.4 and NESHAP DDDDD discussed in Section 5.3.4. No stack testing or numeric emission limits are proposed due to the limited use of the auxiliary boiler, the small size of the fuel gas heaters, and because emissions are inherently limited by the proposed operational limits and work practices proposed as BACT.

6.5.2 BACT Analysis for Auxiliary Boiler and Fuel Gas Heaters, NO_x

Emissions of NO_x from boilers and fuel gas heaters result primarily from the high temperatures generated when fuel is combusted in the presence of air. At high temperatures, oxygen and nitrogen in air react to form NO_x. Because these units will fire natural gas, formation of NO_x from nitrogen constituents in the fuel itself will be negligible.

6.5.2.1 Step 1 – Identify Available Control Options

Combustion of natural gas in the auxiliary boiler and fuel gas heaters will result in emissions of NO_x. To identify available NO_x control options, a review of the various databases discussed under Section 6.3 was conducted for boilers ranging in size from less than 10 MMBTU/hr up to 250 MMBTU/hr, burning gaseous fuels, liquid fuels, or biomass. Appendices C-2e and C-6e provide a summary of NO_x control options identified during the database review. The methods identified are generally summarized as follows:

- Clean Fuels
- Good Combustion Practices
- Combustion Controls (e.g., Low NO_x Burners)
- Flue Gas Recirculation (FGR)
- Selective Catalytic Reduction (SCR)
- Selective Non-Catalytic Reduction (SNCR)

The control options are described further below.

6.5.2.1.1 Use of Clean Fuels

NO_x emissions from boilers can arise from nitrogen contained in the fuel itself. Due to the processes that formed the fuel, landfill gas, coal and biomass contain nitrogen, which is converted to NO_x during combustion. Pipeline quality natural gas contains virtually no nitrogen and is therefore a cleaner fuel with respect to NO_x generation.

The auxiliary boiler and the heaters will be fired exclusively on pipeline quality natural gas. The use of clean fuels or natural gas as the sole fuel has been applied as BACT for NO_x emissions from boilers and heaters, shown in Appendix C-2e.

6.5.2.1.2 Good Combustion Practices

Good combustion practices for the boiler and heaters are described in Section 6.5.1.1.2 and were widely identified in the database review as a control option for reducing NO_x emissions from boilers. Such practices, including maintenance and periodic tuning, minimize performance degradation and help maintain the efficiency of the unit, leading to more heat obtained from consumed fuel, and therefore fewer emissions generated.

6.5.2.1.3 Combustion Controls

Combustion controls, such as a low-NO_x burner (LNB), are a front-end control technology for limiting NO_x emissions from fuel combustion equipment, such as an auxiliary boiler or fuel gas heater. A LNB delays combustion by staging the air or fuel in multiple zones and thus limiting peak flame temperatures. This results in uniform temperatures below the peak NO_x formation temperature range thereby lowering NO_x emissions.

6.5.2.1.4 *Flue Gas Recirculation*

FGR is a control technology used for limiting emissions of NO_x from a boiler. The technology works by returning up to 25% of the flue gas from a burner back to the combustion chamber. This can be done with hot gas fans and combustion air duct mixing devices (known as forced FGR) or via induced FGR, which routes flue gas through ducts directly into the existing forced draft fan inlet. The flue gas absorbs heat from the flame, lowering the peak flame temperature and reducing NO_x formation. The flue gas also mixes with the combustion air and lowers the oxygen content of the air, thereby limiting the NO_x-forming reaction.

6.5.2.1.5 *Selective Catalytic Reduction*

SCR is a control technology used to convert NO_x into diatomic nitrogen (N₂) and H₂O using a catalyst. The reduction reactions used by SCR require O₂ and are most effective at O₂ levels above 2-3%. Base metals, such as vanadium or titanium, are often used for the catalyst due to their effectiveness as a control technology for NO_x and cost-effectiveness for use with natural gas combustion. In addition, a reductant such as anhydrous ammonia or NH₃(aq) is added to the flue gas and absorbed onto the catalyst.

The downside of the catalysts used for SCR is the base metals' lack of high thermal durability and their potential to oxidize SO₂ into SO₃. The exhaust stream passes through a catalyst, and the NO_x reacts with ammonia (or another reagent such as anhydrous ammonia or urea), leading to formation of water and gaseous nitrogen (N₂). Typically, the ammonia is fed to the SCR through an ammonia injection grid and may be vaporized or directly injected through a series of spray nozzles.⁶⁴

6.5.2.1.6 *Selective Non-catalytic Reduction (SNCR)*

SNCR is a post-combustion control technology for NO_x emissions that uses a reduction-oxidation reaction to convert NO_x into N₂, H₂O, and CO₂. Like SCR, SNCR involves injecting ammonia (or urea) into the flue gas stream, which must be approximately 1400-2000°F for the chemical reaction to occur.

SNCR can be more economically desirable because a catalyst is not required and, in theory, SNCR can control NO_x emissions with an efficiency similar to that of SCR (i.e., 90%). However, operating constraints on temperature, reaction time, and mixing often lead to less effective results when using SNCR in practice.

6.5.2.2 *Step 2 – Eliminate Technically Infeasible Options*

The use of clean fuels, good combustion practices, and combustion controls is feasible and will be carried forward in this analysis.

6.5.2.2.1 *Flue Gas Recirculation*

FGR is not an effective control technique for the auxiliary boiler due to the low utilization and operation at low fire and is not feasible for the fuel gas heaters due to their size and operational profile. Due to the low-load operations and limited use of the auxiliary boiler and fuel gas heaters, FGR was not considered further in this analysis.

⁶⁴ Airflow Sciences Corporation, "Ammonia Injection and Mixing Systems," February 2019.

6.5.2.2.2 *Selective Catalytic Reduction*

The auxiliary boiler will be limited to no more than 10% capacity factor and is only used when steam is otherwise unavailable from an operating CCCT power train. SCR may be technically feasible on larger boilers that are not subject to limited, as-needed, operation; however, the general operating condition of the auxiliary boiler is expected to be at low load where the exhaust gas temperature will be below the minimum needed for effective SCR control. When the auxiliary boiler does operate at higher loads, the duration of such operation is expected to be short, limiting the effectiveness of an SCR. Therefore, the SCR control technology is not considered to be technically feasible for the auxiliary boiler and is not considered further.

The database and permit reviews conducted as a part of this BACT analysis did not identify SCR as being used for heaters in a size range similar to that of the proposed fuel gas heaters. As such, SCR is not considered an available technology for these heaters.

6.5.2.2.3 *Selective Non-catalytic Reduction (SNCR)*

The exhaust streams from the auxiliary boiler and fuel gas heaters are lower than the temperature required to operate an SNCR system efficiently. Therefore, SNCR is considered technically infeasible for the auxiliary boiler or the fuel gas heaters.

6.5.2.3 *Step 3 – Rank Control Options*

The remaining control technologies ranked in order of effectiveness are combustion controls, good combustion practices, and clean fuels.

6.5.2.4 *Step 4 – Evaluate Impacts of Control Options*

Applicant proposes to use clean fuels, good combustion practices, and combustion controls for the auxiliary boiler. Therefore, further evaluation of energy, environmental, and economic impacts is not required. Applicant proposes to use clean fuels and good combustion practices for the fuel gas heaters.

6.5.2.5 *Step 5 – Select BACT*

The foregoing analysis indicates that the use of clean fuels, good combustion practices, and combustion controls represent BACT for NO_x emissions from the proposed auxiliary boiler. The auxiliary boiler will be limited to a capacity factor of 10% and no more than 2,000 hours/year of operation (exclusive of initial commissioning of the CCCT power trains). No stack testing or numeric emission limits are proposed due to the limited use of the auxiliary boiler and because emissions are inherently limited by the proposed operational limits and work practices proposed as BACT.

The use of clean fuels and good combustion practices will be used to minimize NO_x emissions from the fuel gas heaters. No numeric limits or stack testing are proposed due to the small size of the heaters and because emissions are inherently limited by the work practices proposed as BACT. Proper operation and maintenance of the heaters will ensure compliance with BACT.

The proposed BACT is consistent with the RBLC database review.

6.5.3 BACT Analysis for Auxiliary Boiler and Heaters, CO and VOC

Emissions of CO and VOC from the auxiliary boiler and fuel gas heaters result primarily from incomplete combustion. Incomplete combustion results from a low air to fuel ratio, low temperatures and low residence times in the combustion region. Additionally, VOC can arise from higher molecular weight impurities in the fuel.

6.5.3.1 Step 1 – Identify Available Control Options

Combustion of natural gas in the auxiliary boiler and fuel gas heaters will result in emissions of CO and VOC. To identify available CO and VOC control options for natural gas-boilers, a review of the various databases discussed under Section 6.3 was conducted for boilers ranging in size from less than 10 MMBTU/hr up to 250 MMBTU/hr, burning gaseous fuels, liquid fuels, or biomass. Appendices C-2c, C-2f, C-6c and C-6f provide a summary of CO and VOC control options identified during the database review. The methods identified are generally summarized as follows:

- Clean Fuels
- Good Combustion Practices
- Good Combustion Design
- Oxidation Catalyst
- Thermal Oxidation

Four RBLC entries included regenerative thermal oxidation (RTO) for VOC control, and each was for wood-derived fuel and biomass. As the boiler and heaters for the Project will only use pipeline quality natural gas, which contains fewer impurities and especially fewer high molecular weight impurities that lead to VOC, thermal oxidation will not be considered further for this BACT analysis. As mentioned above for the CCCT, carbon adsorbers are not considered available technologies for VOC control from boilers and heaters.

The control options considered in the BACT are described further below.

6.5.3.1.1 Use of Clean Fuels

CO and VOC emissions from boilers can arise from incomplete combustion and impurities in the fuel. Pipeline quality natural gas contains very few impurities and is therefore a cleaner fuel with respect to CO and VOC generation.

The auxiliary boiler and fuel gas heaters will be fired exclusively on pipeline quality natural gas. The use of clean fuels or natural gas as the sole fuel has been applied as BACT for CO and VOC emissions from boilers and heaters, shown in Appendices C-2c, C-2f, C-6c and C-6f.

6.5.3.1.2 Good Combustion Practices

Good combustion practices for the auxiliary boiler are described in Section 6.5.1.1.2 and were widely identified in the database review as a control option for reducing CO and VOC emissions from boilers. Such practices, including maintenance and periodic tuning, minimize performance degradation and help

maintain the efficiency of the unit, leading to more heat obtained from consumed fuel, and therefore fewer emissions generated.

6.5.3.1.3 Good Combustion Design

Good combustion design involves equipment components configured to improve the efficiency of combustion. By optimizing fuel to air ratios, fuel and air mixing, and maintaining adequate temperature and residence time, air pollutant emissions, particularly CO and VOC, are reduced. Design for good combustion is especially important for the burner. Good combustion design can include an oxygen trim system, which monitors flue gas composition and then automatically adjusts combustion air to maintain excess air at the desired level.

6.5.3.1.4 Oxidation Catalyst

Oxidation catalysts reduce the required temperature for complete oxidation by bringing the gas stream into contact with a catalyst. The CO and VOC that are present in the gas stream as a result of incomplete combustion are oxidized into CO₂ by the oxidation catalyst. Oxidation catalysts are often comprised of platinum group metals and configured for maximum surface area but require the exhaust stream to be at a certain temperature for the catalyst to work effectively.

6.5.3.1.5 Thermal Oxidation

Thermal oxidation is a means of controlling both CO and VOC emissions via the introduction of oxygen and very high temperatures (1400-1600°F). The introduction of oxygen at sufficient temperatures results in the thermal oxidation of CO into CO₂. Similarly, hydrocarbon chains are oxidized into CO₂ and water.

6.5.3.2 Step 2 – Eliminate Technically Infeasible Options

The exhaust from the auxiliary boiler would require supplementary heating to reach the temperatures necessary for oxidation catalyst to be effective. This additional heating would result in increased design complexity, costs, and emissions from the exhaust heater. The database review largely confirms that this technology is not feasible or available, with the one exception being the Cronus Chemicals facility in Tuscola, Illinois. The Cronus Chemicals facility lists catalytic oxidation as the control technology applied to an auxiliary boiler, but that facility has not been built and has not demonstrated the use of oxidation catalyst on an auxiliary boiler in practice. Therefore, this technology is deemed infeasible for the purpose of controlling CO and VOC from auxiliary boilers.

Applicant also reviewed the possibility of using oxidation catalyst on the fuel gas heaters, which resulted in a similar infeasibility determination. Due to the fuel gas heaters size, low exhaust temperature, and the lack of any proven examples of oxidation catalyst being operated on similar units in the database review, Applicant has concluded that this technology is infeasible for use on fuel gas heaters.

Thermal oxidation, similar to catalytic oxidation, requires significant heating of the exhaust stream to achieve destruction of CO and VOC emissions. The heating requires additional external combustion sources that would result in additional emissions of VOC and CO. There are no applications of thermal oxidation as a means to control CO or VOC from an auxiliary boiler or a fuel gas heater in the RBLC database. Therefore, these controls are deemed infeasible for this application.

All remaining options listed above are considered technically feasible control methods for the reduction of CO and VOC from the natural gas-fired auxiliary boiler and the fuel gas heaters.

6.5.3.3 Step 3 – Rank Control Options

Use of clean fuels, good combustion design, and good combustion practices are the only technically feasible options and will all be utilized as part of the Project. Therefore, no ranking of the controls is necessary.

6.5.3.4 Step 4 – Evaluate Impacts of Control Options

The Facility will use a combination of clean fuels, good combustion practices, and good combustion design as discussed in Step 3. Therefore, further evaluation is unnecessary. Regardless, there are no potential adverse energy, environmental, or economic impacts that would preclude the use of any of these control methods.

6.5.3.5 Step 5 – Select BACT

The foregoing analysis indicates that the use of clean fuels, good combustion practices, and good combustion design represent BACT for CO and VOC emissions from the proposed boiler and heaters. The auxiliary boiler will be limited to a capacity factor of 10% and no more than 2,000 hours/year of operation (exclusive of commissioning). No stack testing or numeric emission limits are proposed due to the limited use of the auxiliary boiler, the small size of the fuel gas heaters, and because emissions are inherently limited by the proposed operational limits and work practices proposed as BACT. Proper operation and maintenance of the boiler and heaters will assure compliance with BACT.

6.5.4 BACT Analysis for Auxiliary Boiler and Heaters, GHG

Emissions of GHG from fuel combustion in the auxiliary boiler and fuel gas heaters result from the combustion of hydrocarbon fuels.

6.5.4.1 Step 1 – Identify Available Control Options

Combustion of natural gas in the auxiliary boiler and fuel gas heaters will result in emissions of GHG. To identify available GHG control options for natural gas-boilers, a review of the various databases discussed under Section 6.3 was conducted for boilers ranging in size from less than 10 MMBTU/hr up to 250 MMBTU/hr, burning gaseous fuels, liquid fuels, or biomass. Appendices C-2b and C-6b provide a summary of GHG control options identified during the database review. The methods identified are generally summarized as follows:

- Use of Low Carbon Fuels
- Good Combustion Practices

No add-on control devices for GHG for small boilers and heaters were identified during the database review and thus are not considered in this BACT analysis. CCS is not evaluated for the boilers and heaters because it was determined not to be available for the Project as previously discussed.

6.5.4.1.1 *Use of Low Carbon Fuels*

Low carbon fuels were discussed above for the CCCT power trains, in Section 6.4.5. The same clean pipeline quality natural gas used for the CCCT power trains will be used for the auxiliary boiler and fuel gas heaters.

As described above, the amount of CO₂ produced when a fossil fuel is burned is a function of the carbon content of the fuel. Natural gas primarily consists of CH₄, which has a high energy content and the lowest carbon intensity amongst available fossil fuels. According to the U.S. Energy Information Administration, combusted natural gas releases approximately 50% less CO₂ compared to coal and roughly 34% - 38% less CO₂ compared to diesel fuel and gasoline.⁶⁵

The auxiliary boiler and fuel gas heaters will be fired exclusively on natural gas. The use of natural gas as the sole fuel has been widely applied as BACT for GHG emissions from boilers and heaters, shown in Appendices C-2b and C-6b.

6.5.4.1.2 *Good Combustion Practices*

Good combustion practices for the boiler and fuel gas heaters are described in Section 6.5.1.1.2 and were widely identified in the database review as a control option for reducing GHG emissions from boilers and heaters. Such practices, including maintenance and periodic tuning, minimize performance degradation and help maintain the efficiency of the unit, leading to more heat obtained from consumed fuel.

6.5.4.2 *Step 2 – Eliminate Technically Infeasible Options*

All options listed above are considered technically feasible control methods for the reduction of GHG from the natural gas-fired auxiliary boiler and fuel gas heaters.

6.5.4.3 *Step 3 – Rank Control Options*

Applicant plans to use all three control methods identified during the RBLC review. Therefore, ranking control methods is unnecessary.

6.5.4.4 *Step 4 – Evaluate Impacts of Control Options*

The Facility will use a combination of all control methods identified in Step 1. Therefore, further evaluation is unnecessary. Regardless, there are no potential adverse energy, environmental, or economic impacts that would preclude the use of any of these control methods.

6.5.4.5 *Step 5 – Select BACT*

Applicant proposes good combustion practices and combustion of low-carbon fuels as BACT for the auxiliary boiler and fuel gas heaters. Additionally, the boiler will be limited to a capacity factor of 10% and no more than 2,000 hours/year of operation (exclusive of commissioning). No stack testing or numeric emission limits are proposed due to the limited use of the auxiliary boiler, the small size of the fuel gas

⁶⁵ <https://www.eia.gov/tools/faqs/faq.php?id=73&t=11>

heaters, and because emissions are inherently limited by the proposed operational limits and work practices proposed as BACT. Proper operation and maintenance of the heaters will ensure compliance with BACT. The proposed BACT is consistent with the results of the RBLC review.

6.6 BACT ANALYSIS FOR ENGINES

The Project will include the installation of three diesel-fired emergency generators and one diesel-fired fire water pump engines. The emergency engines will meet the applicable requirements of NSPS IIII, including the sole use of diesel fuel (fuel oil) meeting the ULSD specification.

Natural disasters and other events underlying an electrical grid failure could also cause a disruption in the natural gas fuel supply to the Facility. For this reason, natural gas would not be a reliable fuel source for the proposed emergency generators and was not considered for this Project.

6.6.1 BACT Analysis for Emergency Engines, PM/PM₁₀/PM_{2.5}, SO₂, GHG

The control options identified during the database review for PM/PM₁₀/PM_{2.5}, SO₂ and GHG were substantively similar. As such, the following discussion covers BACT for PM/PM₁₀/PM_{2.5}, SO₂, and GHG emissions from the proposed emergency generators to avoid duplication.

Emissions of particulate from internal combustion engines results from the presence of impurities in the fuel, such as ash or incomplete combustion of hydrocarbons. GHG is generated from the combustion of hydrocarbons in the fuel. Sulfur oxides/SO₂ result from sulfur in the fuels reacting with oxygen in the air during combustion.

6.6.1.1 Step 1 – Identify Available Control Options

Combustion of diesel fuel in the emergency engines will result in emissions of PM/PM₁₀/PM_{2.5}, SO₂, and GHG. To identify available PM/PM₁₀/PM_{2.5}, SO₂, and GHG control options for diesel-fired emergency engines, a review of the various databases discussed under Section 6.3 was conducted. Appendices C-3a, C-3b, and C-3d provide a summary of PM/PM₁₀/PM_{2.5}, SO₂, and GHG control options identified during the database review. The methods identified are generally summarized as follows:

- Good combustion practices with clean fuel (fuel oil meeting the ULSD specification)
- Limited hours of operation
- Compliance with NSPS IIII
- Use of EPA certified engines
- Diesel particulate filter (DPF)

By using good combustion practices and/or clean fuel oil with low concentrations of sulfur and ash, generation of particulate and SO₂ is reduced, as reflected in the majority of RBLC entries. Limited hours of operation, especially applicable for emergency engines, reduces generation of air pollutants and is the primary means for reducing GHG emissions for diesel-fired engines. Compliance with NSPS IIII and use of EPA certified engines ensures use of efficient, properly maintained modern engines, which also generally reduces emissions.

DPF were developed to reduce PM emissions from diesel engines. They generally consist of a wall-flow type filter positioned in the exhaust stream of the engine. As exhaust gases pass through the system, particulates are removed and retained on the filter media. As the mass of PM collected on a DPF increases, exhaust gas flow through the filter may become impeded, resulting in an increased back pressure within the filter and reduced engine efficiency. When the back pressure reaches a certain level, the filter needs to be cleaned or regenerated for reuse. Regeneration of filters may be accomplished by periodically enriching the air-to-fuel mixture to produce a higher exhaust gas temperature to burn off particulate matter contained in the filter. Thermal filter regeneration of diesel particulate filters typically requires temperatures above 600°F and may not be desirable because it can lead to uncontrolled ignition of soot and filter substrate damage. Catalytic regeneration systems have been developed to regenerate DPF collection systems at lower temperatures, as the catalyst facilitates combustion of the collected particulate during the periodic regeneration cycle. DPF are generally considered available and will be evaluated further in Step 2.

No add-on control devices for SO₂ or GHG were identified during the database review and thus are not considered in this BACT analysis.

6.6.1.2 Step 2 – Eliminate Technically Infeasible Options

Because the engines will operate as emergency engines, reliability in an emergency must be taken into consideration. DPFs on emergency engines can become clogged due to running the engines routinely at low loads for weekly testing. Clogging can lower engine performance or cause a shutdown. In developing the NSPS Tier classifications for emergency engines, EPA decided not to include DPFs because the risk of malfunctions was not worth the small decrease in PM emissions. Based on the anticipated operation of the Project engines, DPFs are considered technically infeasible.

All other options listed above are considered technically feasible control methods for the reduction of PM/PM₁₀/PM_{2.5}, SO₂, and GHG emissions from diesel-fired engines.

6.6.1.3 Step 3 – Rank Control Options

The effectiveness of the control methods listed in Step 1 can vary based on the extent of implementation. Applicant plans to use a combination of all four control methods identified during the RBLC review. Therefore, ranking the control methods is unnecessary.

6.6.1.4 Step 4 – Evaluate Impacts of Control Options

The Facility will use a combination of all control methods identified in Step 1. Therefore, further evaluation is unnecessary. Regardless, there are no potential adverse energy, environmental, or economic impacts that would preclude the use of any of these control methods.

6.6.1.5 Step 5 – Select BACT

The emergency engines will be subject to NSPS IIII and will comply with the applicable provisions therein. Applicant will install certified engines and will operate the engines in accordance with the manufacturer's written emissions-related instructions. Pursuant to 40 CFR §60.4207(b), Applicant will only purchase and use diesel fuel meeting the ULSD specification. Furthermore, the engines will be classified as emergency engines and will therefore each be limited to operating no more than 100 hours/year for readiness testing

and maintenance check purposes in accordance with 40 CFR §60.4211(f). The combination of all these control methods will be considered BACT for the control of PM/PM₁₀/PM_{2.5}, sulfur oxides/SO₂/ H₂SO₄, and GHG from emergency diesel-fired generators.

6.6.2 BACT Analysis for Emergency Engines, CO, VOC, and NO_x

The control options identified during the database review for CO, VOC, and NO_x were substantively similar. As such, the following discussion covers BACT for CO, VOC, and NO_x emissions from the proposed emergency engines to avoid duplication.

Emissions of CO and VOC result from incomplete combustion of hydrocarbon fuels, and further emissions of VOC result from combustion of larger molecular weight fuel constituents. NO_x results from the combination of nitrogen and oxygen which react at the high temperatures that occur during combustion.

6.6.2.1 Step 1 – Identify Available Control Options

Combustion of diesel fuel in the emergency engines will result in emissions of CO, VOC, and NO_x. To identify available CO, VOC, and NO_x control options for diesel-fired emergency engines, a review of the various databases discussed under Section 6.3 was conducted. Appendices C-3c, C-3e, and C-3f provide a summary of CO, VOC, and NO_x control options identified during the database review. The methods identified are generally summarized as follows:

- Compliance with NSPS IIII
- Use of EPA certified engines
- Good combustion practices with fuel oil meeting the ULSD specification
- Limited hours of operation

The most highly represented controls listed in the RBLC entries were good combustion/operating practices, compliance with NSPS IIII, and/or use of an EPA certified engine. These control options ensure use of efficient, properly maintained modern engines, and are especially targeted toward reducing emissions of CO, VOC, and NO_x. Per 40 CFR 1090.305, ULSD must meet either a minimum cetane index of 40 (which correlates to the ease of ignition and combustion quality), or a maximum aromatic content of 35 volume percent, both of which reduce emissions from diesel combustion. Limited hours of operation, especially applicable for emergency engines, reduces generation of all pollutants.

Other than a generator equipped with SCR to achieve LAER standards (RLBC entry NY-0103), no add-on control devices for NO_x were identified during the database review and thus are not considered in this BACT analysis. SCR has been applied in base-load (non-emergency) diesel engine applications where engines are operated primarily at high capacity for extended periods of time for industrial and power generation purposes. Because of the quick startups required to provide the necessary emergency backup power and short operating durations, SCR is not technically feasible for emergency engines. While oxidation catalyst was listed for five of the RBLC entries as the control option for VOC and CO, the resulting VOC emission limits were 0.18-0.19 g/hp-hr, and the resulting CO emission limits were 2.6-3.3 g/hp-hr, appearing that the oxidation catalyst may have been installed to achieve applicable EPA certification emission rates, as the resulting emissions are in the range of those for a certified engine. In addition, the engines will typically only operate for a short time each month for readiness testing and maintenance checks. The exhaust gas will not reach the temperature required for the oxidation catalyst to

provide emissions control during these periods. Based on the RBLC entries, the level of emissions control achieved through use of NSPS III certified engines is equivalent or more stringent than installation of the oxidation catalyst.

6.6.2.2 Step 2 – Eliminate Technically Infeasible Options

All options listed above are considered technically feasible control methods for the reduction of CO, VOC, and NO_x emissions from the emergency engines.

6.6.2.3 Step 3 – Rank Control Options

The effectiveness of the control methods listed in Step 1 can vary based on the extent of implementation. Applicant plans to use a combination of all four control methods identified during the RBLC review. Therefore, ranking the control methods is unnecessary.

6.6.2.4 Step 4 – Evaluate Impacts of Control Options

The Facility will use a combination of all control methods identified in Step 1. Therefore, further evaluation is unnecessary. Regardless, there are no potential adverse energy, environmental, or economic impacts that would preclude the use of any of these control methods.

6.6.2.5 Step 5 – Select BACT

The emergency engines will be subject to NSPS III and will comply with the applicable provisions thereof. Applicant will install certified engines and will operate the engines in accordance with the manufacturer's written emissions-related instructions. Pursuant to 40 CFR §60.4207(b), Applicant will only purchase and use diesel fuel meeting the ULSD specification. Furthermore, the engines will be classified as emergency engines and will therefore each be limited to operating no more than 100 hours/year for readiness testing and maintenance check purposes in accordance with 40 CFR §60.4211(f). The combination of all these control methods will be considered BACT for the control of CO, VOC, and NO_x from diesel-fired emergency engines.

6.7 BACT ANALYSIS FOR FUGITIVE PIPING COMPONENTS

The Project will involve the installation of piping components (valves, flanges, connectors, etc.) associated with the delivery of natural gas to the proposed combustion turbines. Natural gas is composed primarily of CH₄ and contains small amounts of CO₂, both GHGs. VOC constituents like propane, butane, pentane, and hexane are also present in the natural gas.

Piping components associated with the fuel gas system can leak, releasing fugitive GHG and VOC emissions to the atmosphere. Note that estimated fugitive GHG emissions from fuel gas system piping components are estimated to be less than 0.5% of total potential GHG emissions from the Project. BACT to reduce fugitive GHG and VOC emissions from fuel supply piping components is addressed below.

As previously mentioned, BACT may not be any less stringent than emission standards promulgated under 40 CFR Parts 60, 61, and 63. No such standards have been published for fugitive GHG or fugitive VOC emissions from fuel gas system piping components at a power generation facility. Therefore, there is no

minimum level of control that must be achieved through application of BACT for fugitive emissions from piping components for this Project.

6.7.1 BACT Analysis for Fugitive Piping Components, GHG and VOC

The control options identified during the database review for GHG and VOC were substantively similar. As such, the following discussion covers BACT for both GHG and VOC fugitive emissions from the piping components to avoid duplication.

6.7.1.1 Step 1 – Identify Available Control Options

Potential control options for fugitive GHG and VOC emissions were identified through a review of the databases identified in Section 6.3. Appendices C-4a and C-4b provide a summary of the control options identified during the database review. Identified control options include:

- Development and implementation of a leak detection and repair (LDAR) program
- Performance of audio/visual/olfactory (AVO) inspections
- Use of low-emission piping component design practices

The database review covered fugitive emission control options across multiple industries and process types. AVO inspections were the only control option identified for piping component fugitive GHG or VOC emissions at a power generation facility.

6.7.1.1.1 Leak Detection and Repair (LDAR)

LDAR involves the use of monitoring technology to identify leaking components and subsequent repair of such components. LDAR programs have been used as a work practice under numerous federal regulations to reduce fugitive emissions from chemical manufacturing, natural gas processing, and other industries.⁶⁶ Monitoring is generally performed using handheld gas analyzers in accordance with Method 21 in Appendix A-7 of 40 CFR Part 60 or Optical Gas Imaging Cameras (OGICs). When a leak is identified, repair is generally required within a specified timeframe to minimize the fugitive emission.

6.7.1.1.2 AVO Inspections

AVO inspections involve the use of audio, visual, and olfactory senses to detect leaks. Pressurized natural gas escaping through a leaking component may generate an audible “hiss”. The pressure drop across the leak interface may result in visual leak indicators such as condensation or ice formation. Finally, natural gas is odorized with mercaptan for safety and thus has a discernible odor. Components exhibiting audio, visual, or olfactory indications of a leak are repaired within a specified timeframe to minimize the fugitive emission.

6.7.1.1.3 Leakless Components

Emissions from leaking components can be reduced using welded connections, leakless valves, and sealless pumps. Common leakless valves include bellows valves and diaphragm valves. Common sealless pumps

⁶⁶ For example, see 40 CFR Part 60, Subparts VV, VVa, KKK, OOOO, and OOOOa.

are diaphragm pumps, canned motor pumps, and magnetic drive pumps. Although effective at minimizing leaks, the use of leakless components may be limited by materials of construction considerations and process operating conditions.

6.7.1.2 Step 2 – Eliminate Technically Infeasible Options

LDAR and AVO inspections are both considered technically feasible options for reducing fugitive GHG emissions from Project-related fuel gas piping components.

Applicant is currently in the process of designing the fuel gas supply system. Proper piping design will be achieved through the application of the applicable design code. Leakless technologies do exist, but they are not commonly used in natural gas fuel system piping components. Failure of a welded connection or valve joint would require a system shutdown and the repair would likely result in additional emissions due to the purging of gas within the system. Due to these maintenance challenges and given that leakless technologies are not commonly used for this application, the use of leakless components is not considered technically feasible and can be eliminated from further evaluation.

6.7.1.3 Step 3 – Rank Remaining Technologies

The effectiveness of an LDAR or AVO inspection program is considered to vary based on monitoring frequency and leak definition, with higher monitoring frequencies and lower leak definitions yielding more effective programs. According to TCEQ data, LDAR programs and AVO inspection programs can achieve similar levels of control.⁶⁷ Therefore, ranking is not required.

6.7.1.4 Step 4 – Evaluate Impacts of Control Options

Applicant is proposing AVO inspections as BACT to reduce fugitive GHG and VOC emissions from Project fuel gas piping components. This control option does not pose any adverse energy, environmental, or economic impacts. Routine AVO inspections can be performed by Facility personnel as a part of normal Facility maintenance activities without the added cost of third-party monitoring contractors that would be required to implement an LDAR program. Such third-party contractors would need to travel to the Facility to perform LDAR monitoring, resulting in adverse energy and environmental impacts due to the combustion of fossil fuels, which will be avoided through application of the proposed control options.

6.7.1.5 Step 5 – Select BACT

Applicant proposes to implement weekly AVO inspections as BACT for fugitive GHG and VOC emissions from Project fuel gas system piping components. As shown in Appendix C-4a and Appendix C-4b, the proposed BACT is in alignment with BACT determinations made for fugitive GHG and VOC emissions from piping components at other power generation facilities.

⁶⁷ *Air Permit Technical Guidance for Chemical Sources: Fugitive Guidance*, TCEQ Air Permits Division, APDG 6422, June 2018.

6.8 BACT ANALYSIS FOR SF₆ CIRCUIT BREAKERS

6.8.1 BACT Analysis for SF₆ Circuit Breakers, GHG

The Project will involve the installation of various capacity circuit breakers containing SF₆, a GHG, as an insulating dielectric material. The circuit breakers are designed to fully contain the insulating dielectric material throughout normal operation. BACT for the SF₆ circuit breakers is discussed below.

6.8.1.1 Step 1 – Identify Available Control Options

A review of the databases discussed in Section 6.3 indicates that the most effective control method for minimizing emissions of SF₆ from circuit breakers is to install modern, fully enclosed, pressurized circuit breakers integrated with state-of-the-art technology such as low-pressure leak detection systems. The effectiveness of leak-tight closed systems is enhanced by equipping them with a density alarm that provides a warning when the SF₆ gas has escaped. The use of an alarm identifies potential leak issues before the bulk of the SF₆ has escaped to the atmosphere allowing the operator to promptly address and remedy the issue. The results of the database review are presented in Appendix C-5. Based on the database review, the BACT emission limit for circuit breakers is a certified maximum leak rate of 0.5%. With the design and operational parameters, duration of leaking will also be minimized.

Although not identified during the database review, using another type of insulating material in the proposed circuit breakers could be a control option for reducing GHG emissions from the circuit breakers. According to the National Institute of Standards and Technology (NIST) Technical Note 1425 (Technical Note),⁶⁸ dielectric oil and compressed air (“air blast”) circuit breakers are alternatives to SF₆ circuit breakers.

6.8.1.2 Step 2 – Eliminate Technically Infeasible options

According to the Technical Note, SF₆ is a vastly superior dielectric gas for nearly all high voltage applications. SF₆ exhibits exceptional insulation and arc-interruption properties and is proven technology that has been thoroughly investigated and successfully applied in the field. Furthermore, the Technical Note states that “the use of SF₆ insulation has distinct advantages over oil insulation, including none of the fire safety problems or environmental problems related to oil, high reliability, flexible layout, little maintenance, long service life, lower noise, better handling, and lighter equipment.” As a result, the report concludes that SF₆ is clearly superior in performance to the air and oil insulated equipment used prior to the development of SF₆ insulated circuit breakers. Although some new gases show promise for use as an insulating fluid in new equipment, additional research is required prior to implementation of these new gases in the field, especially for large circuit breakers.

Availability of spare circuit breakers and personnel with the expertise to safely install and maintain the equipment is required to ensure grid reliability. The wide adoption of SF₆ circuit breaker technology in the industry, and within the Applicant networks, ensures availability in the event of component failure. Project Developer’s personnel and others in the region who would assist with maintenance activities in the event of a natural disaster are trained in the safe operation and maintenance of SF₆ circuit breakers. Without wider

⁶⁸ NIST: *Gases for Electrical Insulation and Arc Interruption: Possible Present and Future Alternatives to Pure SF₆* – November 1997.

adoption of non-SF₆ circuit breaker technology in the industry, the lack of adequate inventory and trained personnel poses serious risks to safety and grid reliability.

For the reasons discussed above, there are currently no technically feasible alternatives to the of SF₆ circuit breakers for this Project.

6.8.1.3 Step 3 – Rank Remaining Technologies

The use of state-of-the-art SF₆ technology with leak detection to limit fugitive emissions, certified to a maximum leak rate of 0.5%, is the highest ranked control technology that is technically feasible for this application.

6.8.1.4 Step 4 – Evaluate Impacts of Control Options

The use of the most effective control technology was selected in Step 3. Therefore, a further evaluation concerning energy, environmental, and economic impacts is unnecessary. Regardless, there are no potential adverse energy, environmental, or economic impacts that would preclude the use of state-of-the-art SF₆ technology with leak detection.

6.8.1.5 Step 5 – Select BACT

Based on the above analysis, Applicant proposes the use of state-of-the-art, totally-enclosed SF₆ circuit breakers equipped with leak detection alarms as BACT for SF₆ circuit breakers. The circuit breakers will be designed to meet the latest standard for high voltage circuit breakers set by the American National Standards Institute (ANSI).⁶⁹ As shown in Appendix C-5, the proposed BACT is in alignment with other BACT determinations for SF₆ circuit breakers.

6.9 BACT ANALYSIS FOR STORAGE TANKS

Applicant has evaluated the control of VOC emissions from the proposed diesel storage tanks to determine BACT. A review of the RBL database and other relevant permits indicates that diesel fuel storage tanks generally have no add-on control technologies. Applicant proposes to use storage tanks with submerged filling as BACT to minimize working and breathing losses from the tanks.

6.10 BACT ANALYSIS FOR INLET CHILLERS

The project will include the installation of six (6) inlet chillers to cool the incoming ambient air before entering the turbine compressor. Reducing the temperature of the incoming air increases its density, allowing more air mass to be drawn in for the same volumetric flow; thereby increasing overall operating efficiency at high ambient temperatures.

6.10.1 BACT Analysis for Inlet Chillers, PM/PM₁₀/PM_{2.5}

Particulate emissions from inlet chiller cooling towers result from dissolved solids in the circulating water, such as suspended and dissolved minerals. As water evaporates in the cooling tower, small droplets of this water, known as drift, can be entrained in the air stream exiting the tower. While most drift droplets deposit

⁶⁹ ANSI Standard C37.013, Standard for AC High-Voltage Generator Circuit Breakers on a Symmetrical Current.

in or near the tower, a portion of the finer droplets can contribute to atmospheric particulate emissions as the water evaporates and leaves behind solid particulate residue.

6.10.1.1 Step 1 – Identify Available Control Options

Particulate emissions from cooling towers can be controlled by reducing the drift rate and/or reducing the concentration of dissolved and suspended solids in the circulating water. Available control options include high efficiency drift eliminators (HEDEs), proper design, operation, and maintenance which result in limiting cycles of concentration of circulating water, use of higher quality makeup water, or a combination of these measures.

The following control methods were included in the RBLC database and are considered available for the proposed inlet chillers:

- High Efficiency Drift Eliminators
- Proper equipment design, operation, and maintenance

6.10.1.1.1 High Efficiency Drift Eliminators

Drift eliminators allow air to exit the cooling tower while capturing entrained liquid water droplets and returning them back to the tower's water basin. This conserves water, reduces particulate emissions, and helps protect nearby equipment from water deposition. Drift eliminators are a proven, highly effective, and commercially available technology with demonstrated effectiveness and relatively low capital and operating costs.

6.10.1.1.2 Proper design, operation, and maintenance

Maintaining proper water balance, inspecting drift eliminators regularly, replacing damaged sections promptly, and properly operating fans per their design can assist in the effectiveness of the drift eliminators.

6.10.1.2 Step 2 – Eliminate Technically Infeasible PM/PM₁₀/PM_{2.5} Control Options

All available control technologies are considered technically feasible for reducing emissions of PM from the proposed inlet chillers.

6.10.1.3 Step 3 – Rank Remaining PM Control Options

All control options were selected. Therefore, no ranking of the control technologies was needed.

6.10.1.4 Step 4 – Evaluate Particulate Control Options

All control options were selected in Step 3. Therefore, further evaluation is unnecessary.

6.10.1.5 Step 5 – Select BACT

Based on this analysis, the Applicant has determined that BACT for PM/PM₁₀/PM_{2.5} emissions from the proposed inlet chiller cooling towers is the use of HEDEs, in conjunction with proper design, operation, and maintenance.

HEDEs are the most commonly listed control technology for cooling towers in the RBLC database, with several entries reflecting achieved drift rates as low as 0.0005% of the circulating water flow rate. Several RBLC database results specify a less stringent drift rate of 0.001% and 0.003%. The Applicant proposes to select a manufacturer that guarantees a 0.0005% drift rate, representing the most stringent rate identified in recent PSD BACT determinations and providing optimal control of PM emissions for the inlet chiller cooling towers.

6.11 BACT ANALYSIS FOR DELUGABLE AIR-COOLED HEAT EXCHANGERS

6.11.1 BACT Analysis for Delugable Air-Cooled Heat Exchangers, PM/PM₁₀/PM_{2.5}

A search of the RBLC and other relevant databases did not identify any BACT determinations specifically applicable to delugable-type air-cooled heat exchangers. This is likely because these systems are infrequently permitted as standalone emissions units and are generally considered insignificant ancillary components of larger facilities rather than separately permitted sources. Delugable cooling systems operate on an intermittent basis and primarily operate on a dry mode (normal operation), producing no emissions. When the ambient temperature becomes too high that dry cooling cannot maintain the required process temperature, water is sprayed (or deluged) into the system, which can result in particulate emissions. In the absence of directly applicable RBLC determinations, this BACT evaluation relies on the analysis conducted for the inlet chiller cooling towers, an analogous technology discussed in Section 6.10, as the basis for evaluating available and appropriate control options.

6.11.1.1 Step 1 – Identify Available Control Options

There were no available control options identified in the RBLC database specifically for delugable air-cooled heat exchangers. Therefore, the inlet chiller was used as an analogous technology. The following control methods are considered available for the proposed delugable air-cooled heat exchangers:

- Drift Eliminators
- Proper equipment design, operation, and maintenance

6.11.1.1.1 Drift Eliminators

Drift eliminators allow air to exit the cooling tower while capturing entrained liquid water droplets and returning them back to the tower's water basin. This conserves water, reduces particulate emissions, and helps protect nearby equipment from water deposition. Drift eliminators are a proven, highly effective, and commercially available technology with demonstrated effectiveness and relatively low capital and operating costs.

6.11.1.1.2 Proper design, operation, and maintenance

Proper design, operation, and maintenance of a delugable air-cooled heat exchanger includes adequately sized fans, properly designed spray nozzles, operating in dry mode when conditions allow, operating the deluge system within the manufacturer's specifications, routine inspections, and proper cleaning.

6.11.1.2 Step 2 – Eliminate Technically Infeasible PM/PM₁₀/PM_{2.5} Control Options

HEDEs are not technically feasible for installation on a delugable air-cooled heat exchanger due to the system's configuration and operational requirements. High efficiency drift eliminators are not inherent to delugable air-cooled heat exchangers. Unlike HEDE, delugable cooling systems do not operate with a continuous water flow and the air path is different than a traditional cooling tower system. Because HEDEs are not a viable option for this equipment type, a standard-efficiency drift eliminator, achieving a drift rate of 0.01% is considered technically feasible and is carried forward for further evaluation. Proper design, operation, and maintenance practices are also technically feasible for delugable air-cooled heat exchangers.

6.11.1.3 Step 3 – Rank Remaining PM Control Options

The technically feasible control options for the air-cooled heat exchangers, ranked in order of control effectiveness, are: (1) drift eliminators, and (2) proper design, operation, and maintenance practices.

6.11.1.4 Step 4 – Evaluate Particulate Control Options

The most effective technically feasible control options were selected in Step 3. Therefore, further evaluation is unnecessary.

6.11.1.5 Step 5 – Select BACT

Based on this analysis, the Applicant has determined that BACT for PM/PM₁₀/PM_{2.5} emissions from the proposed air-cooled heat exchangers is the use of drift eliminators, in conjunction with proper design, operation, and maintenance practices. The system will be equipped with a drift eliminator designed and guaranteed by the manufacturer to achieve a drift rate no greater than 0.010% of the circulating water flow rate.

Appendix A

Emission Calculations

Appendix A-1
Project-Wide Potential Emission Summary
Canadys Station | Walterboro, South Carolina
Revised July 2026

PROJECT-WIDE TOTAL EMISSIONS SUMMARY (TONS/YEAR)															
Pollutant	Gas Turbines and Duct Burners	Natural-Gas Fired Auxiliary Boiler	Diesel-Fired Emergency Generators	Diesel-Fired Fire Water Pumps	Piping Components	Belly Tanks	Fuel Oil Storage Tanks	SF ₆ Circuit Breakers	Fuel Gas Heaters	Inlet Chillers	Delugable Auxiliary Equipment Cooling Systems	Project-Wide Total ^[1]	PSD Permitting Threshold ^[2]	PSD Significant Emission Rates ^[3]	Thresholds Exceeded
	EU01 - EU03 (CTs); EU04a - EU04c (DBs)	EU05	EU06, EU07, EU08	EU09A, EU09B	EU10	EU11 - EU14A, EU14B	EU15 & EU16	EU17	EU18 - EU21	EU24	EU25				
NSR Pollutants															
CO _x	661.7	3.69	39.04	0.93	--	--	--	--	25.76	--	--	731.13	100	40	PSD, SER
NO _x	2,745.4	3.74	4.65	0.16	--	--	--	--	21.64	--	--	2,775.60	100	100	PSD, SER
VOC	968.0	0.54	0.86	0.02	0.52	6.57E-03	1.01	--	1.42	--	--	972.34	100	40	PSD, SER
SO ₂	118.3	0.06	0.03	0.002	--	--	--	--	0.15	--	--	118.50	100	40	PSD, SER
PM	607.0	0.74	0.31	0.03	--	--	--	--	1.96	2.37E+00	4.93E+00	617.30	100	25	PSD, SER
PM ₁₀	607.0	0.74	0.35	0.03	--	--	--	--	1.96	1.66E+00	3.45E+00	615.16	100	15	PSD, SER
PM _{2.5}	607.0	0.74	0.35	0.03	--	--	--	--	1.96	9.95E-01	2.07E+00	613.11	100	10	PSD, SER
Lead	0.1	0.00005	--	--	--	--	--	--	0.0001	--	--	0.08	100	0.6	--
Sulfuric Acid Mist	197.1	--	--	--	--	--	--	--	--	--	--	197.10	100	7.0	PSD, SER
Fluorides	--	--	--	--	--	--	--	--	--	--	--	--	100	3	--
Hydrogen Sulfide (H ₂ S)	--	--	--	--	--	--	--	--	--	--	--	--	100	10	--
Total Reduced Sulfur ^{[4][5]}	--	--	--	--	4.70E-04	--	--	--	--	--	--	4.70E-04	100	10	--
Reduced Sulfur Compounds ^{[4][5]}	--	--	--	--	4.70E-04	--	--	--	--	--	--	4.70E-04	100	10	--
Ozone	--	--	--	--	--	--	--	--	--	--	--	--	--	40 (NO _x or VOCs)	SER for NO _x and VOCs
Greenhouse Gases ^[6]															
CO _{2e}	7,838,860	11,764	2,993	168	1,244	--	--	744	31,084	--	--	7,886,857.5	--	75,000	SER
Hazardous Air Pollutants															
Pollutant	Gas Turbines and Duct Burners	Natural-Gas Fired Auxiliary Boiler	Diesel-Fired Emergency Generators	Diesel-Fired Fire Water Pumps	Piping Components	Belly Tanks	Fuel Oil Storage Tanks	SF ₆ Circuit Breakers	Fuel Gas Heaters	Inlet Chillers	Delugable Auxiliary Equipment Cooling Systems	Facility-Wide Total ^[1]	Major Source HAP Threshold	Major Source HAP Threshold Exceeded?	
	EU01 - EU03 (CTs); EU04a - EU04c (DBs)	EU05	EU06, EU07, EU08	EU09A, EU09B	EU10	EU11 - EU14A, EU14B	EU15 & EU16	EU17	EU18 - EU21	EU24	EU25				
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
1,1-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
1,2-Dichloropropane	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
1,3-Butadiene	0.1	--	--	--	--	--	--	--	--	--	--	8.61E-02	10	No	
1,3-Dichloropropene	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
2-Methylnaphthalene	--	2.35E-06	--	--	--	--	--	--	6.18E-06	--	--	8.53E-06	10	No	
3-Methylchloranthrene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
7,12-Dimethylbenz(a)anthracene	--	1.57E-06	--	--	--	--	--	--	4.12E-06	--	--	5.69E-06	10	No	
Acenaphthene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Acenaphthylene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Acetaldehyde	2.6	--	4.35E-04	2.59E-05	--	--	--	--	--	--	--	2.61E+00	10	No	
Acrolein	0.4	--	1.36E-04	8.10E-06	--	--	--	--	--	--	--	4.18E-01	10	No	
Anthracene	--	2.35E-07	--	--	--	--	--	--	6.18E-07	--	--	8.53E-07	10	No	
Arsenic	0.1	1.96E-05	--	--	--	--	--	--	5.15E-05	--	--	5.33E-02	10	No	
Benzene	0.9	2.05E-04	1.34E-02	7.98E-04	--	--	3.54E-04	--	5.41E-04	--	--	9.42E-01	10	No	
Benzo(a)anthracene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Benzo(a)pyrene	--	1.17E-07	--	--	--	--	--	--	3.09E-07	--	--	4.27E-07	10	No	
Benzo(b)fluoranthene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Benzo(g,h,i)perylene	--	1.17E-07	--	--	--	--	--	--	3.09E-07	--	--	4.27E-07	10	No	
Benzo(k)fluoranthene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Beryllium	0.0	1.17E-06	--	--	--	--	--	--	3.09E-06	--	--	1.88E-03	10	No	
Cadmium	0.1	1.08E-04	--	--	--	--	--	--	2.83E-04	--	--	8.31E-02	10	No	
Carbon Tetrachloride	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Chlorobenzene	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Chloroform	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Chromium	0.1	1.37E-04	--	--	--	--	--	--	3.61E-04	--	--	1.24E-01	10	No	
Chrysene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Cobalt	0.0	8.23E-06	--	--	--	--	--	--	2.16E-05	--	--	5.40E-03	10	No	
Dichlorobenzene	--	1.17E-04	--	--	--	--	--	--	3.09E-04	--	--	4.27E-04	10	No	
Dibenz(a,h)anthracene	--	1.17E-07	--	--	--	--	--	--	3.09E-07	--	--	4.27E-07	10	No	
Ethylbenzene	2.1	--	--	--	--	--	5.92E-04	--	--	--	--	2.09E+00	10	No	
Ethylene Dibromide	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Fluoranthene	--	2.94E-07	--	--	--	--	--	--	7.73E-07	--	--	1.07E-06	10	No	
Fluorene	--	2.74E-07	--	--	--	--	--	--	7.21E-07	--	--	9.95E-07	10	No	
Formaldehyde	26.3	7.34E-03	1.36E-03	8.11E-05	--	--	--	--	1.93E-02	--	--	2.63E+01	10	Yes	
Hexane	--	1.76E-01	--	--	2.54E-02	--	7.86E-05	--	4.64E-01	--	--	6.65E-01	10	No	
Indeno(1,2,3-c,d)pyrene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Manganese	3.0	3.72E-05	--	--	--	--	--	--	9.79E-05	--	--	3.00E+00	10	No	
Mercury	0.0	2.54E-05	--	--	--	--	--	--	6.70E-05	--	--	1.99E-02	10	No	
Methanol	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Methylene Chloride	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Nickel	0.1	2.05E-04	--	--	--	--	--	--	5.41E-04	--	--	1.41E-01	10	No	
Naphthalene	0.2	5.97E-05	2.24E-03	1.34E-04	--	--	--	--	1.57E-04	--	--	2.13E-01	10	No	
PAH	0.3	--	3.82E-03	2.27E-04	--	--	--	--	--	--	--	2.87E-01	10	No	
Phenanthrene	--	1.66E-06	--	--	--	--	--	--	4.38E-06	--	--	6.04E-06	10	No	
Propylene Oxide	1.9	--	--	--	--	--	--	--	--	--	--	1.89E+00	10	No	
Pyrene	--	4.89E-07	--	--	--	--	--	--	1.29E-06	--	--	1.78E-06	10	No	
Selenium	0.1	2.35E-06	--	--	--	--	--	--	6.18E-06	--	--	9.58E-02	10	No	
Styrene	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Toluene	8.5	3.33E-04	4.85E-03	2.89E-04	--	--	4.52E-03	--	8.76E-04	--	--	8.49E+00	10	No	
Vinyl Chloride	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Xylenes	4.2	--	3.33E-03	1.98E-04	--	--	1.24E-02	--	--	--	--	4.19E+00	10	No	
Polycyclic Organic Matter (POM) ^[7]	0.3	--	3.82E-03	2.27E-04	--	--	--	--	--	--	--	2.87E-01	10	No	
Maximum Single HAP	--	--	--	--	footnote 8	--	--	--	--	--	--	26.31	10	Yes	
Total HAP	51.06	0.18	0.03	0.002	0.03	--	0.02	--	0.49	--	--	51.73	25	Yes	

B. NOTES

- [1] Maximum annual emissions for the design scenario were used for each gas turbine. The maximum emission rate for each pollutant is included in the facility total. See Appendix A-2 for additional details.
- [2] For stationary sources which are included in one of the 28 listed categories, the PSD major source permitting threshold is 100 tons/year for each NSR pollutant.
- [3] After determining if the source exceeds the PSD major source threshold, facility emission rates are compared to the Significant Emission Rates to identify which pollutants are subject to PSD review.
- [4] Includes H₂S.
- [5] Piping components associated with the proposed fuel gas system are a potential source of fugitive natural gas emissions. These emissions may include minor quantities of sulfur compounds from the chemical used to odorize the natural gas. Refer to the calculations in Appendix A-8 for additional details.
- [6] CO_{2e} = CO₂ * GWP_{CO2} + CH₄ * GWP_{CH4} + N₂O * GWP_{N2O} + SF₆ * GWP_{SF6}. GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO₂ = 1, GWP CH₄ = 28, N₂O = 265, SF₆ = 23,500.
- [7] Sum of all chemical compounds identified as polycyclic organic matter (POM) in AP-42 Chapter 1, Section 1.4. POM includes polycyclic aromatic hydrocarbon (PAH). Emissions of each individual compound within the POM group are also calculated in the table.
- [8] The maximum single HAP emitted by each emission unit varies. However, the maximum single HAP on a facility-wide basis is formaldehyde.

End of Table

Appendix A-2
Emission Calculations: Mitsubishi Gas Turbine
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. GENERAL INFORMATION			
Combustion Turbine Technology		Mitsubishi M501JAC	
Natural Gas Firing: Maximum CT Heat Input (HHV) ^[A.1]	4,966	MMBtu/hr	Design Scenario (100% load, 59°F, Duct Burners On, Inlet Chilling On)
Fuel Oil Firing: Maximum CT Heat Input (HHV)	3,495	MMBtu/hr	Design Scenario (100% load, 59°F, No Duct Burners)
Startup/Shutdown (SUSD) Information			
Annual Hours of SUSD Associated w/ Natural Gas Firing ^[A.2]	644.2	hrs/year	
Annual Hours of SUSD Associated w/ Fuel Oil Firing	332.0	hrs/year	
Natural Gas			
Maximum Hours of Normal Natural Gas Operation (No SUSD)	8,760	hrs/year	
Maximum Hours of Normal Operation (w/ SUSD) ^[A.3]	8,116	hrs/year	(8760 hrs/year - 644 hrs/year)
Natural Gas + Fuel Oil			
Maximum Hours of Normal Fuel Oil Operation (No SUSD)	720	hrs/year	
Maximum Hours of Normal Natural Gas Operation (No SUSD)	8040	hrs/year	
Maximum Hours of Normal Fuel Oil Operation (w/ SUSD)	388	hrs/year	
Maximum Hours of Normal Natural Gas Operation (w/ SUSD)	7,396	hrs/year	
NOTES			
[A.1] Combustion turbine heat input rating (HHV) based on the design scenario (100% load, 59°F, inlet chiller and duct burners on for natural gas firing, and duct burners off for fuel oil firing) . See Mitsubishi performance data.			
[A.2] The maximum annual hours of SUSD are based on the maximum annual duration of all startup and shutdown events across each event types. See Appendix B-3 for additional details.			
[A.3] Maximum Hours of Non-SUSD Operation = Maximum Hours of Total Operation - Estimated Annual Downtime Hours - Maximum Hours of SUSD Operation			

B. EMISSION CALCULATIONS, NATURAL GAS COMBUSTION ONLY: SINGLE TURBINE							
Pollutant	Emission Factor (lb/MMBtu)	Notes	Natural Gas: Normal Operation (No SUSD) (8,760 hrs/year)		Natural Gas: Normal Operation (w/ SUSD) (8,116 hrs/year Normal Op. + 644 hrs/year SUSD)		Worst-Case Annual Emissions (tons/yr) ^[B.10]
			Hourly Emissions (lb/hr) ^[B.6]	Normal Operation (tons/yr) ^[B.8]	SUSD Emissions (tons/yr) ^[B.7]	Remaining Normal Operation (tons/yr) ^[B.9]	
Criteria Pollutants							
NO _x	--	[B.1]	43.00	188.34	23.26	174.49	197.75
CO	--	[B.1]	47.25	206.96	245.11	191.74	436.84
VOC	--	[B.1]	15.00	65.70	73.60	60.87	134.47
SO ₂	--	[B.1]	9.00	39.42	1.81	36.52	39.42
PM	--	[B.1]	42.00	183.96	6.97	170.43	183.96
PM ₁₀	--	[B.1]	42.00	183.96	6.97	170.43	183.96
PM _{2.5}	--	[B.1]	42.00	183.96	6.97	170.43	183.96
Greenhouse Gases							
CO ₂	120.0	[B.2]	595,968.00	2,610,339.84	191,951.36	2,418,388.48	2,610,339.84
CH ₄	2.20E-03	[B.2]	10.95	47.96	3.53	44.43	47.96
N ₂ O	2.20E-04	[B.2]	1.09	4.80	0.35	4.44	4.80
CO ₂ e	--	[B.3]	596,565	2,612,953.48	192,143.55	2,420,809.93	2,612,953.48
Hazardous Air Pollutants							
1,3-Butadiene	4.30E-07	[B.4]	2.14E-03	9.35E-03	6.88E-04	8.67E-03	9.35E-03
Acetaldehyde	4.00E-05	[B.4]	1.99E-01	8.70E-01	6.40E-02	8.06E-01	8.70E-01
Acrolein	6.40E-06	[B.4]	3.18E-02	1.39E-01	1.02E-02	1.29E-01	1.39E-01
Arsenic	1.96E-07	[B.5]	9.74E-04	4.27E-03	3.14E-04	3.95E-03	4.27E-03
Benzene	1.20E-05	[B.4]	5.96E-02	2.61E-01	1.92E-02	2.42E-01	2.61E-01
Beryllium	1.18E-08	[B.5]	5.84E-05	2.56E-04	1.88E-05	2.37E-04	2.56E-04
Cadmium	1.08E-06	[B.5]	5.36E-03	2.35E-02	1.73E-03	2.17E-02	2.35E-02
Chromium	1.37E-06	[B.5]	6.82E-03	2.99E-02	2.20E-03	2.77E-02	2.99E-02
Cobalt	8.24E-08	[B.5]	4.09E-04	1.79E-03	1.32E-04	1.66E-03	1.79E-03
Ethylbenzene	3.20E-05	[B.4]	1.59E-01	0.70	5.12E-02	0.64	0.70
Formaldehyde	--	[B.1]	2.00E+00	8.76	6.44E+00	8.12	14.56
Lead	4.90E-07	[B.5]	2.43E-03	1.07E-02	7.84E-04	9.88E-03	1.07E-02
Manganese	3.73E-07	[B.5]	1.85E-03	8.10E-03	5.96E-04	7.51E-03	8.10E-03
Mercury	2.55E-07	[B.5]	1.27E-03	5.54E-03	4.08E-04	5.14E-03	5.54E-03
Nickel	2.06E-06	[B.5]	1.02E-02	4.48E-02	3.29E-03	4.15E-02	4.48E-02
Naphthalene	1.30E-06	[B.4]	6.46E-03	2.83E-02	2.08E-03	2.62E-02	2.83E-02
PAH	2.20E-06	[B.4]	1.09E-02	4.79E-02	3.52E-03	4.43E-02	4.79E-02
Propylene Oxide	2.90E-05	[B.4]	1.44E-01	6.31E-01	4.64E-02	5.84E-01	6.31E-01
Selenium	2.35E-08	[B.5]	1.17E-04	5.12E-04	3.76E-05	4.74E-04	5.12E-04
Toluene	1.30E-04	[B.4]	6.46E-01	2.83	2.08E-01	2.62	2.83
Xylenes	6.40E-05	[B.4]	3.18E-01	1.39	1.02E-01	1.29	1.39
Other							
NH ₃	--	[B.1]	37.00	162.06	11.92	150.14	162.06
Sulfuric Acid Mist	--	[B.1]	15.00	65.70	4.83	60.87	65.70
NOTES							
[B.1] Emission rate (lb/hr) based on the design scenario (100% load, 59°F, inlet chiller status off, duct burner on at peak firing) . For PM, condensable PM = filterable PM, per OEM estimates, so assumed Filterable PM = PM = PM ₁₀ = PM _{2.5} . See Manufacturer's Performance Data in Appendix B. For formaldehyde SU/SD emissions, the final emission rate derived from the design scenario was conservatively multiplied by a factor of 10 to account for reduced oxidation catalyst efficiency during startup, prior to achieving optimal control performance.							
[B.2] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, Natural Gas (5/14/2024). Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg. CO ₂ factor is two significant figures.							
[B.3] CO ₂ e = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265							
[B.4] Emission factors from AP-42, Chapter 3, Section 3.1, Table 3.1-3.							
[B.5] Metal HAP emissions from natural gas fired combustion turbines are not accounted for in AP-42 Chapter 3. Emission factors from AP-42, Chapter 1, Section 1.4, Table 1.4-4 were used as a surrogate.							
[B.6] Hourly Emissions (lb/hr) = Emission Factor (lb/MMBtu) × Maximum CT Heat Input (HHV, MMBtu/hr).							
[B.7] The manufacturer provided SUSD data for NO _x , CO, PM/PM ₁₀ /PM _{2.5} , VOC, and SO ₂ . For these pollutants, SUSD Emissions (tons/yr) equals the sum of emissions across all SUSD event types reported in Appendix B-3. For other pollutants, SUSD Emissions (tons/yr) = Hourly Emission Rate (lb/hr) × Maximum Hours of SUSD Operation (hrs/yr) × 1 ton/2,000 lbs.							
[B.8] Normal Operation, No SUSD (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Total Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for normal operation of the combustion turbine throughout the year, without the consideration of startups or shutdowns.							
[B.9] Remaining Normal Operation (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Non-SUSD Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for the emissions associated with the remaining duration of normal operations after SUSD has been taken into consideration.							
[B.10] Worst-Case Annual Emissions (tons/yr) represents the highest of the following: (i) Normal Operation (No SUSD) {tons/yr} or (ii) {SUSD Emissions (tons/yr) + Remaining Normal Operation (tons/yr)}.							

Continued on next page

C1. EMISSION CALCULATIONS, FUEL OIL & NATURAL GAS COMBUSTION: SINGLE TURBINE							
FUEL OIL							
Pollutant	Emission Factor (lb/MMBtu)	Notes	Fuel Oil: Normal Operation (No SUSD) (720 hrs/year)		Fuel Oil: Normal Operation (w/ SUSD) (384 hrs/year Normal Op. + 332 hrs/year SUSD)		Worst-Case Annual Emissions (tons/yr) ^[C1.10]
			Hourly Emissions (lb/hr) ^[C1.6]	Normal Operation (tons/yr) ^[C1.8]	SUSD Emissions (tons/yr) ^[C1.7]	Remaining Normal Operation (tons/yr) ^[C1.9]	
Criteria Pollutants							
NO _x	--	[C1.1]	81.00	29.16	22.58	15.71	38.29
CO	--	[C1.1]	49.17	17.70	486	9.54	495.30
VOC	--	[C1.1]	11.33	4.08	191.39	2.20	193.59
SO ₂	--	[C1.1]	7.00	2.52	0.94	1.36	2.52
PM	--	[C1.1]	93.00	33.48	19.51	18.04	37.55
PM ₁₀	--	[C1.1]	93.00	33.48	19.51	18.04	37.55
PM _{2.5}	--	[C1.1]	93.00	33.48	19.51	18.04	37.55
Greenhouse Gases							
CO ₂	160.0	[C1.2]	559,200.00	201,312.00	92,827.20	108,484.80	201,312.00
CH ₄	6.61E-03	[C1.2]	23.12	8.32	3.84	4.48	8.32
N ₂ O	1.32E-03	[C1.2]	4.62	1.66	0.77	0.90	1.66
CO _{2e}	--	[C1.3]	561,072	201,986.05	93,138.01	108,848.04	201,986.05
Hazardous Air Pollutants							
1,3-Butadiene	1.60E-05	[C1.4]	5.59E-02	2.01E-02	9.28E-03	1.08E-02	2.01E-02
Arsenic	1.10E-05	[C1.5]	3.84E-02	1.38E-02	6.38E-03	7.46E-03	1.38E-02
Benzene	5.50E-05	[C1.4]	1.92E-01	6.92E-02	3.19E-02	3.73E-02	6.92E-02
Beryllium	3.10E-07	[C1.5]	1.08E-03	3.90E-04	1.80E-04	2.10E-04	3.90E-04
Cadmium	4.80E-06	[C1.5]	1.68E-02	6.04E-03	2.78E-03	3.25E-03	6.04E-03
Chromium	1.10E-05	[C1.5]	3.84E-02	1.38E-02	6.38E-03	7.46E-03	1.38E-02
Formaldehyde	--	[C1.1]	1.00E+00	3.60E-01	1.66E+00	1.94E-01	1.85E+00
Lead	1.4E-05	[C1.5]	4.89E-02	1.76E-02	8.12E-03	9.49E-03	1.76E-02
Manganese	7.9E-04	[C1.5]	2.76E+00	9.94E-01	4.58E-01	5.36E-01	0.99
Mercury	1.2E-06	[C1.5]	4.19E-03	1.51E-03	6.96E-04	8.14E-04	1.51E-03
Nickel	4.6E-06	[C1.5]	1.61E-02	5.79E-03	2.67E-03	3.12E-03	5.79E-03
Naphthalene	3.50E-05	[C1.4]	1.22E-01	4.40E-02	2.03E-02	2.37E-02	4.40E-02
PAH	4.00E-05	[C1.4]	1.40E-01	5.03E-02	2.32E-02	2.71E-02	5.03E-02
Selenium	2.5E-05	[C1.5]	8.74E-02	3.15E-02	1.45E-02	1.70E-02	3.15E-02
Other							
NH ₃	--	[C1.1]	28.00	10.08	4.65	5.43	10.08
Sulfuric Acid Mist	--	[C1.1]	12.00	4.32	1.99	2.33	4.32
NOTES							
[C1.1] Emission rate (lb/hr) based on the design scenario (100% load, 59°F, inlet chiller and duct burners on for natural gas firing, and duct burners off for fuel oil firing). For PM, condensable PM = filterable PM, per OEM estimates, so assumed Filterable PM = PM = PM ₁₀ = PM _{2.5} . See Appendix C-4. See Manufacturer's Performance Data in Appendix B. For formaldehyde SU/SD emissions, the final emission rate derived from the design scenario was conservatively multiplied by a factor of 10 to account for reduced oxidation catalyst efficiency during startup, prior to achieving optimal control performance.							
[C1.2] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, Petroleum Products (5/14/2024). Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg. CO ₂ factor is two significant figures.							
[C1.3] CO _{2e} = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265							
[C1.4] Emission factors from AP-42, Chapter 3, Section 3.1, Table 3.1-4.							
[C1.5] Emission factors from AP-42, Chapter 3, Section 3.1, Table 3.1-5.							
[C1.6] Hourly Emissions (lb/hr) = Emission Factor (lb/MMBtu) × Maximum CT Heat Input (HHV, MMBtu/hr).							
[C1.7] The manufacturer provided SUSD data for NO _x , CO, PM/PM ₁₀ /PM _{2.5} , VOC, and SO ₂ . For these pollutants, SUSD Emissions (tons/yr) equals the sum of emissions across all SUSD event types reported in Appendix B-3. For other pollutants, SUSD Emissions (tons/yr) = Hourly Emission Rate (lb/hr) × Maximum Hours of SUSD Operation (hrs/yr) × 1 ton/2,000 lbs.							
[C1.8] Normal Operation (No SUSD) (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Total Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for normal operation (No SUSD) of the combustion turbine throughout the year, without the consideration of startups or shutdowns.							
[C1.9] Remaining Normal Operation (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Non-SUSD Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for the emissions associated with the remaining duration of normal operations after SUSD has been taken into consideration.							
[C1.10] Worst-Case Annual Emissions (tons/yr) represents the highest of the following: (i) Normal Operation (No SUSD) (tons/yr) or (ii) [SUSD Emissions (tons/yr) + Remaining Normal Operation (tons/yr)].							
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C2. NATURAL GAS							
Pollutant	Emission Factor (lb/MMBtu)	Notes	Natural Gas: Normal Operation (No SUSD) (8,040 hrs/year)		Natural Gas: Normal Operation (w/ SUSD) (7,396 hrs/year Normal Op. + 644 hrs/year SUSD)		Worst-Case Annual Emissions (tons/yr) ^[C2.10]
			Hourly Emissions (lb/hr) ^[C2.6]	Normal Operation (tons/yr) ^[C2.8]	SUSD Emissions (tons/yr) ^[C2.7]	Remaining Normal Operation (tons/yr) ^[C2.9]	
Criteria Pollutants							
NO _x	--	[C2.1]	43.00	172.86	23.26	159.01	182.27
CO	--	[C2.1]	47.25	189.95	245.11	174.73	419.83
VOC	--	[C2.1]	15.00	60.30	73.60	55.47	129.07
SO ₂	--	[C2.1]	9.00	36.18	1.81	33.28	36.18
PM	--	[C2.1]	42.00	168.84	6.97	155.31	168.84
PM ₁₀	--	[C2.1]	42.00	168.84	6.97	155.31	168.84
PM _{2.5}	--	[C2.1]	42.00	168.84	6.97	155.31	168.84
Greenhouse Gases							
CO ₂	120	[C2.2]	595,968.00	2,395,791.36	191,951.36	2,203,840.00	2,395,791.36
CH ₄	2.20E-03	[C2.2]	10.95	44.02	3.53	40.49	44.02
N ₂ O	2.20E-04	[C2.2]	1.09	4.40	0.35	4.05	4.40
CO ₂ e	--	[C2.3]	596,565	2,398,190.18	192,143.55	2,206,046.63	2,398,190.18
Hazardous Air Pollutants							
1,3-Butadiene	4.30E-07	[C2.4]	2.14E-03	8.58E-03	6.88E-04	7.90E-03	8.58E-03
Acetaldehyde	4.00E-05	[C2.4]	1.99E-01	7.99E-01	6.40E-02	7.35E-01	7.99E-01
Acrolein	6.40E-06	[C2.4]	3.18E-02	1.28E-01	1.02E-02	1.18E-01	1.28E-01
Arsenic	1.96E-07	[C2.5]	9.74E-04	3.91E-03	3.14E-04	3.60E-03	3.91E-03
Benzene	1.20E-05	[C2.4]	5.96E-02	2.40E-01	1.92E-02	2.20E-01	2.40E-01
Beryllium	1.18E-08	[C2.5]	5.84E-05	2.35E-04	1.88E-05	2.16E-04	2.35E-04
Cadmium	1.08E-06	[C2.5]	5.36E-03	2.15E-02	1.73E-03	1.98E-02	2.15E-02
Chromium	1.37E-06	[C2.5]	6.82E-03	2.74E-02	2.20E-03	2.52E-02	2.74E-02
Cobalt	8.24E-08	[C2.5]	4.09E-04	1.64E-03	1.32E-04	1.51E-03	1.64E-03
Ethylbenzene	3.20E-05	[C2.4]	1.59E-01	6.39E-01	5.12E-02	5.88E-01	6.39E-01
Formaldehyde	--	[C2.1]	2.00E+00	8.04E+00	6.44E+00	7.40E+00	8.04E+00
Lead	4.90E-07	[C2.5]	2.43E-03	9.79E-03	7.84E-04	9.00E-03	9.79E-03
Manganese	3.73E-07	[C2.5]	1.85E-03	7.44E-03	5.96E-04	6.84E-03	7.44E-03
Mercury	2.55E-07	[C2.5]	1.27E-03	5.09E-03	4.08E-04	4.68E-03	5.09E-03
Nickel	2.06E-06	[C2.5]	1.02E-02	4.11E-02	3.29E-03	3.78E-02	4.11E-02
Naphthalene	1.30E-06	[C2.4]	6.46E-03	2.60E-02	2.08E-03	2.39E-02	2.60E-02
PAH	2.20E-06	[C2.4]	1.09E-02	4.39E-02	3.52E-03	4.04E-02	4.39E-02
Propylene Oxide	2.90E-05	[C2.4]	1.44E-01	5.79E-01	4.64E-02	5.33E-01	5.79E-01
Selenium	2.35E-08	[C2.5]	1.17E-04	4.70E-04	3.76E-05	4.32E-04	4.70E-04
Toluene	1.30E-04	[C2.4]	6.46E-01	2.60E+00	2.08E-01	2.39E+00	2.60E+00
Xylenes	6.40E-05	[C2.4]	3.18E-01	1.28E+00	1.02E-01	1.18E+00	1.28E+00
Other							
NH ₃	--	[C2.1]	37.00	148.74	11.92	136.82	148.74
Sulfuric Acid Mist	--	[C2.1]	15.00	60.30	4.83	55.47	60.30
NOTES							
[C2.1] Emission rate (lb/hr) based on the design scenario (100% load, 59°F, inlet chiller and duct burners on for natural gas firing, and duct burners off for fuel oil firing). For PM, condensable PM = filterable PM, per OEM estimates, so assumed Filterable PM = PM = PM ₁₀ = PM _{2.5} . See Appendix C-3. See Manufacturer's Performance Data in Appendix B. For formaldehyde SU/SU emissions, the final emission rate derived from the design scenario was conservatively multiplied by a factor of 10 to account for reduced oxidation catalyst efficiency during startup, prior to achieving optimal control performance.							
[C2.2] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, Natural Gas (5/14/2024). Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg. CO ₂ factor is two significant figures.							
[C2.3] CO ₂ e = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265							
[C2.4] Emission factors from AP-42, Chapter 3, Section 3.1, Table 3.1-3.							
[C2.5] Metal HAP emissions from natural gas fired combustion turbines are not accounted for in AP-42 Chapter 3. Emission factors from AP-42, Chapter 1, Section 1.4, Table 1.4-4 were used as a surrogate.							
[C2.6] Hourly Emissions (lb/hr) = Emission Factor (lb/MMBtu) × Maximum CT Heat Input (HHV, MMBtu/hr).							
[C2.7] The manufacturer provided SUSD data for NO _x , CO, PM/PM ₁₀ /PM _{2.5} , VOC, and SO ₂ . For these pollutants, SUSD Emissions (tons/yr) equals the sum of emissions across all SUSD event types reported in Appendix B-3. For other pollutants, SUSD Emissions (tons/yr) = Hourly Emission Rate (lb/hr) × Maximum Hours of SUSD Operation (hrs/yr) × 1 ton/2,000 lbs.							
[C2.8] Normal Operation (No SUSD) (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Total Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for normal operation (No SUSD) of the combustion turbine throughout the year, without the consideration of startups or shutdowns.							
[C1.9] Remaining Normal Operation (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Non-SUSD Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for the emissions associated with the remaining duration of normal operations after SUSD has been taken into consideration.							
[C2.10] Worst-Case Annual Emissions (tons/yr) represents the highest of the following: (i) Normal Operation (No SUSD) (tons/yr) or (ii) [SUSD Emissions (tons/yr) + Remaining Normal Operation (tons/yr)].							

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D. ANNUAL POTENTIAL EMISSIONS COMPARISON: SINGLE TURBINE						
Pollutant	Fuel Oil + Natural Gas		Natural Gas Only		Worst-Case (tons/year)	Worst-Case Scenario ^[D.1]
	Dual Fired: Normal (No SUSD)	Dual Fired: (Normal + SUSD)	NG Fired: Normal (No SUSD)	NG Fired: (Normal + SUSD)		
	(tons/year)	(tons/year)	(tons/year)	(tons/year)		
Criteria Pollutants						
NO _x	202.02	220.57	188.34	197.75	220.57	Dual Fired: (Normal + SUSD)
CO	207.65	915.14	206.96	436.84	915.14	Dual Fired: (Normal + SUSD)
VOC	64.38	322.66	65.70	134.47	322.66	Dual Fired: (Normal + SUSD)
SO ₂	38.70	37.39	39.42	38.33	39.42	NG Fired: Normal (No SUSD)
PM	202.32	199.83	183.96	177.40	202.32000	Dual Fired: Normal (No SUSD)
PM ₁₀	202.32	199.83	183.96	177.40	202.32	Dual Fired: Normal (No SUSD)
PM _{2.5}	202.32	199.83	183.96	177.40	202.32	Dual Fired: Normal (No SUSD)
Greenhouse Gases						
CO ₂	2,597,103.36	2,597,103.36	2,610,339.84	2,610,339.84	2,610,339.84	NG Fired: Normal (No SUSD)
CH ₄	52.34	52.34	47.96	47.96	52.34	Dual Fired: Normal (No SUSD)
N ₂ O	6.07	6.07	4.80	4.80	6.07	Dual Fired: Normal (No SUSD)
CO ₂ e	2,600,176.23	2,600,176.23	2,612,953.48	2,612,953.48	2,612,953.48	NG Fired: Normal (No SUSD)
Hazardous Air Pollutants						
1,3-Butadiene	2.87E-02	2.87E-02	9.35E-03	9.35E-03	2.87E-02	Dual Fired: Normal (No SUSD)
Arsenic	1.78E-02	1.78E-02	4.27E-03	4.27E-03	1.78E-02	Dual Fired: Normal (No SUSD)
Benzene	3.09E-01	3.09E-01	2.61E-01	2.61E-01	3.09E-01	Dual Fired: Normal (No SUSD)
Beryllium	6.25E-04	6.25E-04	2.56E-04	2.56E-04	6.25E-04	Dual Fired: Normal (No SUSD)
Cadmium	2.76E-02	2.76E-02	2.35E-02	2.35E-02	2.76E-02	Dual Fired: Normal (No SUSD)
Chromium	4.12E-02	4.12E-02	2.99E-02	2.99E-02	4.12E-02	Dual Fired: Normal (No SUSD)
Formaldehyde	8.40E+00	8.40E+00	8.76E+00	8.76E+00	8.76E+00	NG Fired: Normal (No SUSD)
Lead	2.74E-02	2.74E-02	1.07E-02	1.07E-02	2.74E-02	Dual Fired: Normal (No SUSD)
Manganese	1.00E+00	1.00E+00	8.10E-03	8.10E-03	1.00E+00	Dual Fired: Normal (No SUSD)
Mercury	6.60E-03	6.60E-03	5.54E-03	5.54E-03	6.60E-03	Dual Fired: Normal (No SUSD)
Nickel	4.69E-02	4.69E-02	4.48E-02	4.48E-02	4.69E-02	Dual Fired: Normal (No SUSD)
Naphthalene	7.00E-02	7.00E-02	2.83E-02	2.83E-02	7.00E-02	Dual Fired: Normal (No SUSD)
PAH	9.43E-02	9.43E-02	4.79E-02	4.79E-02	9.43E-02	Dual Fired: Normal (No SUSD)
Selenium	3.19E-02	3.19E-02	5.12E-04	5.12E-04	3.19E-02	Dual Fired: Normal (No SUSD)
Acetaldehyde	7.99E-01	7.99E-01	8.70E-01	8.70E-01	8.70E-01	NG Fired: Normal (No SUSD)
Acrolein	1.28E-01	1.28E-01	1.39E-01	1.39E-01	1.39E-01	NG Fired: Normal (No SUSD)
Cobalt	1.64E-03	1.64E-03	1.79E-03	1.79E-03	1.79E-03	NG Fired: Normal (No SUSD)
Ethylbenzene	6.39E-01	6.39E-01	6.96E-01	6.96E-01	6.96E-01	NG Fired: Normal (No SUSD)
Propylene Oxide	5.79E-01	5.79E-01	6.31E-01	6.31E-01	6.31E-01	NG Fired: Normal (No SUSD)
Toluene	2.60E+00	2.60E+00	2.83E+00	2.83E+00	2.83E+00	NG Fired: Normal (No SUSD)
Xylenes	1.28E+00	1.28E+00	1.39E+00	1.39E+00	1.39E+00	NG Fired: Normal (No SUSD)
Other						
NH ₃	158.82	158.82	162.06	162.06	162.06	NG Fired: Normal (No SUSD)
Sulfuric Acid Mist	64.62	64.62	65.70	65.70	65.70	NG Fired: Normal (No SUSD)
NOTES						
[D.1] Emissions rates reflect annual operations based on the following scenarios: (1) dual fuel firing (NG and FO) without the consideration of SUSD events, (2) natural gas firing only without the consideration of SUSD events, (3) dual fuel firing (NG and FO) with the consideration of SUSD events, and (4) natural gas firing only with the consideration of SUSD events.						

Appendix A-3
Emission Calculations: Mitsubishi Gas Turbine SU/SD
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION AND GENERAL CALCULATION PARAMETERS	
Combustion Turbine Technology	Mitsubishi M501JAC

B. STARTUP/SHUTDOWN (SU/SD) EVENT INFORMATION - PER TURBINE ^[1]								
Parameter	Natural Gas				Fuel Oil			
Event Type	Cold Start	Warm Start	Hot Start	Shutdown	Cold Start	Warm Start	Hot Start	Shutdown
Event Duration (min/event)	340.00	280.00	135.00	60.00	540.00	360.00	180.00	60.00
Event Duration (hrs/event)	5.67	4.67	2.25	1.00	9.00	6.00	3.00	1.00
Annual Event Frequency (events/yr)	20.00	50.00	70.00	140.00	8.00	20.00	28.00	56.00
Annual SUSD Hours (hrs/yr)	113.33	233.33	157.50	140.00	72.00	120.00	84.00	56.00

C. STARTUP/SHUTDOWN (SU/SD) EMISSIONS (LB/EVENT) - PER TURBINE								
Pollutant	Natural Gas				Fuel Oil			
	Cold Start	Warm Start	Hot Start	Shutdown	Cold Start	Warm Start	Hot Start	Shutdown
NOx	316.00	295.00	208.67	77.50	832.38	658.38	484.38	210.13
CO	2,914.92	2,892.17	1,642.00	1,231.21	11,173.02	11,068.02	10,963.02	6,318.22
PM/PM10/PM2.5	101.92	85.92	46.00	31.33	787.25	592.25	397.25	174.07
VOC	961.04	857.04	538.50	338.83	4,464.96	4,439.96	4,414.96	2,404.29
SO2	Footnote 2				Footnote 2			

D. STARTUP/SHUTDOWN (SU/SD) EMISSIONS (LB/HR) - PER TURBINE ^[3]								
Pollutant	Natural Gas				Fuel Oil			
	Cold Start	Warm Start	Hot Start	Shutdown	Cold Start	Warm Start	Hot Start	Shutdown
NOx	55.76	63.21	92.74	77.50	92.49	109.73	161.46	210.13
CO	514.40	619.75	729.78	1,231.21	1,241.45	1,844.67	3,654.34	6,318.22
PM/PM10/PM2.5	17.99	18.41	20.44	31.33	87.47	98.71	132.42	174.07
VOC	169.60	183.65	239.33	338.83	496.11	739.99	1,471.65	2,404.29
SO2	4.77	4.94	5.67	7.33	5.31	5.46	5.92	6.33

E. STARTUP/SHUTDOWN (SU/SD) EMISSIONS (TONS/YR) - PER TURBINE ^{[4],[5]}								
Pollutant	Natural Gas				Fuel Oil			
	Cold Start	Warm Start	Hot Start	Shutdown	Cold Start	Warm Start	Hot Start	Shutdown
NOx	3.16	7.38	7.30	5.43	3.33	6.58	6.78	5.88
CO	29.15	72.30	57.47	86.18	44.69	110.68	153.48	176.91
PM/PM10/PM2.5	1.02	2.15	1.61	2.19	3.15	5.92	5.56	4.87
VOC	9.61	21.43	18.85	23.72	17.86	44.40	61.81	67.32
SO2	0.27	0.58	0.45	0.51	0.19	0.33	0.25	0.18

F. NOTES	
[1] Startup (SU) and shutdown (SD) information provided by Mitsubishi. SU/SD emissions not provided for CO ₂ and SO ₂ on a per event basis.	
[2] SU/SD emissions not directly provided for SO ₂ . Therefore, SO ₂ SUSD emission were conservatively estimated using the design scenario and MECL emission rates and corresponding durations startup events. See application for additional details.	
[3] Hourly SUSD emission rates provided by manufacturer and are based on turbine SUSD curves.	
[4] SU Emissions (tons/year) = SU Emissions (lb/hr) × Event Duration (hrs/event) × Annual Event Frequency (events/year) × 1 ton / 2,000 lbs	
[5] SD Emissions (tons/year) = SD Emissions (lb/hr) × Event Duration (hrs/event) × Annual Event Frequency (events/year) × 1 ton / 2,000 lbs	

Appendix A-4
Emission Calculations: Gas Turbine Summary
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. ANNUAL POTENTIAL EMISSIONS SUMMARY: THREE (3) TURBINES & ASSOCIATED DUCT BURNERS					
Pollutant	Natural Gas Only		Fuel Oil + Natural Gas		Worst-Case (tons/year)
	NG Fired: Normal (No SUSD)	NG Fired: Normal + SUSD	Dual Fired: Normal (No SUSD)	Dual Fired: Normal + SUSD	
	(tons/year)	(tons/year)	(tons/year)	(tons/year)	
Criteria Pollutants					
NO _x	565.02	593.26	606.06	661.70	661.70
CO	620.87	1,310.53	622.94	2,745.41	2,745.41
VOC	197.10	403.41	193.14	967.98	967.98
SO ₂	118.26	114.98	116.10	112.17	118.26
PM	551.88	532.21	606.96	599.50	606.96
PM ₁₀	551.88	532.21	606.96	599.50	606.96
PM _{2.5}	551.88	532.21	606.96	599.50	606.96
Greenhouse Gases					
CO ₂	7,831,020	7,831,020	7,791,310	7,791,310	7,831,020
CH ₄	143.87	143.87	157.01	157.01	157.01
N ₂ O	14.39	14.39	18.20	18.20	18.20
CO ₂ e	7,838,860	7,838,860	7,800,529	7,800,529	7,838,860
Hazardous Air Pollutants					
1,3-Butadiene	0.03	0.03	0.09	0.09	0.09
Arsenic	0.01	0.01	0.05	0.05	0.05
Benzene	0.78	0.78	0.93	0.93	0.93
Beryllium	0.001	0.001	0.002	0.002	0.002
Cadmium	0.07	0.07	0.08	0.08	0.08
Chromium	0.09	0.09	0.12	0.12	0.12
Formaldehyde	26.28	26.28	25.20	25.20	26.28
Lead	0.03	0.03	0.08	0.08	0.08
Manganese	0.02	0.02	3.00	3.00	3.00
Mercury	0.02	0.02	0.02	0.02	0.02
Nickel	0.13	0.13	0.14	0.14	0.14
Naphthalene	0.08	0.08	0.21	0.21	0.21
PAH	0.14	0.14	0.28	0.28	0.28
Selenium	0.002	0.002	0.096	0.096	0.096
Acetaldehyde	2.61	2.61	2.40	2.40	2.61
Acrolein	0.42	0.42	0.38	0.38	0.42
Cobalt	0.005	0.005	0.005	0.005	0.005
Ethylbenzene	2.09	2.09	1.92	1.92	2.09
Propylene Oxide	1.89	1.89	1.74	1.74	1.89
Toluene	8.48	8.48	7.79	7.79	8.48
Xylenes	4.18	4.18	3.83	3.83	4.18
Total HAP	47.38	47.38	48.37	48.37	51.06
Other					
NH ₃	486.18	486.18	476.46	476.46	486.18
Sulfuric Acid Mist	197.10	197.10	193.86	193.86	197.10

B. NOTES

[1] Annual emissions from the combustion turbines were evaluated for both normal operation (No SUSD) (i.e., 8,760 hours/year) and normal operation + startup and shutdown (SU/SD). SU/SD emission rates were not provided for all pollutants such as GHGs, SO₂, and HAPs. See Appendix A-2 for additional details.

Appendix A-5
Emission Calculations
Canadys Station | Walterboro, South Carolina
Revised July 2026

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Appendix A-6
Emission Calculations: Auxiliary Boiler
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION			
Emission Unit ID	EU05		
Emission Unit Description	Natural Gas Fired Auxiliary Boiler		
Higher Heating Value	1,020	MMBtu/MMscf	[1]
Hours of Operation	2,000	hrs/yr	
Number of Units	1	units	
Heat Input per Boiler	99.8	MMBtu/hr	[2]

B. EQUIPMENT DATA			
Parameter	Total Heat Input Rating (MMBtu/hr)	Fuel Usage (MMscf/hr) ^[3]	Fuel Usage (MMscf/yr) ^[4]
Fuel Usage	99.80	9.78E-02	195.69

C. EMISSION FACTOR CALCULATION FROM CONCENTRATION			
Pollutant	Concentration ^[5]	Molar Weight	Calculated Emission Rate ^[6]
	ppmv	lb/lb-mol	lb/MMBtu
NO _x (as NO ₂)	30	46.01	0.037
CO	50	28.01	0.038

D. EMISSION CALCULATIONS			
<i>Criteria Pollutants</i>			
Pollutant	Emission Factor (lb/MMscf) ^[6,7,8]	Potential Emissions	
		lbs/hr ^[9]	tons/yr ^[10]
NO _x	37.7	3.69E+00	3.69E+00
CO	38.3	3.74E+00	3.74E+00
VOC	5.50	5.38E-01	5.38E-01
SO ₂	0.60	5.87E-02	5.87E-02
PM	7.60	7.44E-01	7.44E-01
PM ₁₀	7.60	7.44E-01	7.44E-01
PM _{2.5}	7.60	7.44E-01	7.44E-01
<i>Greenhouse Gases^[11]</i>			
CO ₂	120,000	1.17E+04	1.17E+04
CH ₄	2.30	2.25E-01	2.25E-01
N ₂ O	0.64	6.26E-02	6.26E-02
CO _{2e}	--	11764.07	1.18E+04

Continued on next page

Hazardous Air Pollutants			
Pollutant	Emission Factor (lb/MMscf)^[12]	Potential Emissions	
		lbs/hr^[9]	tons/yr^[10]
2-Methylnaphthalene	2.40E-05	2.35E-06	2.35E-06
3-Methylchloranthrene	1.80E-06	1.76E-07	1.76E-07
7,12-Dimethylbenz(a)anthracene	1.60E-05	1.57E-06	1.57E-06
Acenaphthene	1.80E-06	1.76E-07	1.76E-07
Acenaphthylene	1.80E-06	1.76E-07	1.76E-07
Anthracene	2.40E-06	2.35E-07	2.35E-07
Arsenic	2.00E-04	1.96E-05	1.96E-05
Benz(a)anthracene	1.80E-06	1.76E-07	1.76E-07
Benzene	2.10E-03	2.05E-04	2.05E-04
Benzo(a)pyrene	1.20E-06	1.17E-07	1.17E-07
Benzo(b)fluoranthene	1.80E-06	1.76E-07	1.76E-07
Benzo(g,h,i)perylene	1.20E-06	1.17E-07	1.17E-07
Benzo(k)fluoranthene	1.80E-06	1.76E-07	1.76E-07
Beryllium	1.20E-05	1.17E-06	1.17E-06
Cadmium	1.10E-03	1.08E-04	1.08E-04
Chromium	1.40E-03	1.37E-04	1.37E-04
Chrysene	1.80E-06	1.76E-07	1.76E-07
Cobalt	8.40E-05	8.22E-06	8.22E-06
Dibenzo(a,h)anthracene	1.20E-06	1.17E-07	1.17E-07
Dichlorobenzene	1.20E-03	1.17E-04	1.17E-04
Fluoranthene	3.00E-06	2.94E-07	2.94E-07
Fluorene	2.80E-06	2.74E-07	2.74E-07
Formaldehyde	7.50E-02	7.34E-03	7.34E-03
Hexane	1.80E+00	1.76E-01	1.76E-01
Indeno(1,2,3-c,d)pyrene	1.80E-06	1.76E-07	1.76E-07
Lead	5.00E-04	4.89E-05	4.89E-05
Manganese	3.80E-04	3.72E-05	3.72E-05
Mercury	2.60E-04	2.54E-05	2.54E-05
Naphthalene	6.10E-04	5.97E-05	5.97E-05
Nickel	2.10E-03	2.05E-04	2.05E-04
Phenanthrene	1.70E-05	1.66E-06	1.66E-06
Pyrene	5.00E-06	4.89E-07	4.89E-07
Selenium	2.40E-05	2.35E-06	2.35E-06
Toluene	3.40E-03	3.33E-04	3.33E-04
Polycyclic Organic Matter (POM)	8.82E-05	8.63E-06	8.63E-06
Maximum HAP	--	1.76E-01	1.76E-01
Total HAPs		1.85E-01	1.85E-01

Continued on next page

E. NOTES		
[1] Higher heating value assumption per AP-42, Chapter 1, Section 1.4, Table 1.4-1, Footnote a.		
[2] Heat input for boiler obtained from OEM boiler design documentation, dated 8/6/2025 (document: DFB-DTB-7749-JF-25 Rev. 00)		
[3] Fuel Usage (MMscf/hr) = Fuel Usage (MMBtu/hr) / Higher Heating Value (MMBtu/MMscf).		
[4] Fuel Usage (MMscf/yr) = Fuel Usage (MMscf/hr) × Hours of Operation (hrs/yr)		
[5] Concentrations and percent oxygen provided for 3% oxygen in Rentech boiler specification data sheet.		
[6] Emission factor calculated using the relationship between natural gas energy content and ideal gas properties, in the following equation: Emission Factor (lb/MMBTU) = pollutant concentration (ppm × 10 ⁻⁶) ÷ molar volume (dscf/lb-mol) × molar weight (lb/lb-mol) × Fd Factor (dscf / MMBtu) × corrected oxygen (20.9 / (20.9 - %O ₂))		
with gas properties as follows:		
Input	Value	Units
Molar Volume	379.73	dscf/lb-mol at 1 atm and 60 °F
Fd Factor	8,710	dscf/MMBtu (for natural gas, App. F to 40 CFR 75)
Corrected Oxygen	3	percent
where Fd is a factor representing a ratio of the volume of dry flue gases generated to the caloric value of the fuel combusted.		
[7] Emission factors from AP-42, Chapter 1, Section 1.4, Tables 1.4-1 and 1.4-2, for Large Boilers greater than 100 MMBTU/hr with flue gas recirculation.		
[8] Total PM emission factor is sum of filterable and condensable. Conservatively set PM ₁₀ , PM _{2.5} equal to total PM.		
[9] Potential Emissions (lbs/hr) = Emission Factor (lb/MMscf) × Potential Facility-Wide Natural Gas Usage (MMscf/hr).		
[10] Potential Emissions (tons/yr) = Emission Factor (lb/MMscf) × Limited Facility-Wide Natural Gas Usage (MMscf/yr) × 1 ton/2,000 lbs.		
[11] Emission factors from AP-42, Chapter 1, Section 1.4, Table 1.4-2. The boiler will be equipped with a low NOx burner. CO ₂ e = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265		
[12] Emission factors from AP-42, Chapter 1, Section 1.4, Tables 1.4-3 and 1.4-4. Constituents of POM (and PAH) are listed individually, as well as summed for total POM.		

End of Calculation

Appendix A-7
Emission Calculations: Emergency Generator and Fire Pumps
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION AND GENERAL CALCULATION PARAMETERS					
Emission Unit ID	EU06 - EU08		EU09A, EU09B		Notes
Emission Unit Description	Diesel-fired emergency generator set		Diesel-fired fire water pump engine		
Engine Rated Capacity	2760 kW		315	hp	[1]
	3701.16 hp				kW to hp conversion
Diesel Heat Content	19,300 Btu/lb		19,300	Btu/lb	[2]
	0.0193 MMBtu/lb				(19,300 Btu/lb / 1,000,000 Btu/MMBtu)
Average Fuel Density	7.1	lb/gal	7.1	lb/gal	[2]
Fuel Consumption Rate	168 gal/hr ^[1]		15.0 gal/hr ^[1]		[1]
	23.02 MMBtu/hr		2.06 MMBtu/hr		(168 gal/hr [1] * 7.1 lb/gal * 0.0193 MMBtu/lb)
Max Actual Annual Run Time	500	hrs/engine	500	hrs/engine	[3]
Number of Emergency Engines	3	engines	2	engines	
Diesel Sulfur Content	0.0015	weight %	0.0015	weight %	
Fuel consumed per year	84,000	gal/year	7,500	gal/year	(used for Fuel Tank throughputs)

B. EMISSION CALCULATIONS										
Criteria Pollutants										
Pollutant	Emission Factor: Generator		Emission Factor: Fire Pump		Emergency Generators		Fire Pumps		Engine Total	
	g/hp-hr	lb/hp-hr	g/kW-hr	lb/hp-hr	lb/hr (single engine)	tons/year (all engines)	lb/hr (single engine)	tons/year (both engines)	lb/hr	tons/year
NO _x ^[1]	6.38	1.41E-02	3.61	5.93E-03	52.06	39.04	1.869	0.93	159.91	39.98
CO ^[1]	0.76	1.68E-03	0.60	9.86E-04	6.20	4.65	0.311	0.16	19.23	4.81
VOCs ^[1]	0.14	3.09E-04	0.08	1.32E-04	1.14	0.86	0.041	0.02	3.51	0.88
SO ₂ ^[4]	footnote 4				0.04	0.03	0.003	0.002	0.11	0.03
PM ^[5]	0.050	1.10E-04	0.10	1.64E-04	0.41	0.31	0.052	0.03	1.33	0.33
PM ₁₀ ^[5]	0.058	1.27E-04	0.12	1.90E-04	0.47	0.35	0.060	0.03	1.53	0.38
PM _{2.5} ^[5]	0.058	1.27E-04	0.12	1.90E-04	0.47	0.35	0.060	0.03	1.53	0.38
Greenhouse Gases										
Pollutant			Emission Factor (lb/MMBtu)	Emergency Generator		Fire Pump		Engine Total		
				lb/hr (single engine)	tons/year (all engines)	lb/hr (single engine)	tons/year (both engines)	lb/hr	tons/year	
CO ₂ ^[6]			163.05	3,754	2,815	335	168	11931.29	2,983	
CH ₄ ^[7]			6.61E-03	0.15	0.11	0.01	0.01	0.48	0.12	
N ₂ O ^[7]			1.32E-03	0.03	0.02	0.003	0.001	0.10	0.02	
CO _{2e} ^[8]			--	3,766	2,824	336	168	11970	2,993	
Hazardous Air Pollutants										
Pollutant			Emission Factor ^[9] lb/MMBtu	Emergency Generator		Fire Pump		Engine Total		
				lb/hr (single engine)	tons/year (all engines)	lb/hr (single engine)	tons/year (both engines)	lb/hr	tons/year	
Benzene			7.76E-04	1.79E-02	1.34E-02	1.60E-03	7.98E-04	5.68E-02	1.42E-02	
Toluene			2.81E-04	6.47E-03	4.85E-03	5.78E-04	2.89E-04	2.06E-02	5.14E-03	
Xylenes			1.93E-04	4.44E-03	3.33E-03	3.97E-04	1.98E-04	1.41E-02	3.53E-03	
Formaldehyde			7.89E-05	1.82E-03	1.36E-03	1.62E-04	8.11E-05	5.77E-03	1.44E-03	
Acetaldehyde			2.52E-05	5.80E-04	4.35E-04	5.18E-05	2.59E-05	1.84E-03	4.61E-04	
Acrolein			7.88E-06	1.81E-04	1.36E-04	1.62E-05	8.10E-06	5.77E-04	1.44E-04	
Naphthalene			1.30E-04	2.99E-03	2.24E-03	2.67E-04	1.34E-04	9.51E-03	2.38E-03	
PAH			2.21E-04	5.09E-03	3.82E-03	4.54E-04	2.27E-04	1.62E-02	4.04E-03	
Total HAPs			--	3.94E-02	2.96E-02	3.52E-03	1.76E-03	1.25E-01	3.13E-02	

C. NOTES									
[1] Generator emissions based on surrogate manufacturer's data sheet (100% load, mission critical, site variation emissions) for a Caterpillar 3516C. Fire water pump engine emissions based on surrogate manufacturer's data sheet for a Clarke JU6H-UFAD98 (includes a John Deere engine). Engine power rating associated with the 2,500 kW generator.									
[2] Value taken from AP-42, Chapter 3.4.									
[3] 500 hours/year of operation are used for potential emission calculations, although operation during an emergency is unlimited. 500 hours/year is based on EPA Guidance "Calculating Potential to Emit (PTE) for Emergency Generators," September 6, 1995.									
[4] Based on ULSD sulfur content of 15 ppm and fuel consumption rate.									
[5] A PM emission factor of 0.05 g/hp-hr was provided in the manufacturer's specifications for the emergency generator. However, the specifications do not state whether this emission factor includes both filterable and condensable PM. Therefore, for PM ₁₀ and PM _{2.5} , the emission factor used in the calculations was conservatively increased by using the ratio of filterable PM ₁₀ to condensable PM calculated using the values provided in Table 3.4-2 of AP-42, Chapter 3.4. PM _{2.5} was assumed equal to PM ₁₀ . No adjustment was made for PM since PM does not include condensable particulates per EPA guidance.									
[6] Emission factor taken from 40 CFR Part 98 Subpart C, Table C-1 (07/2025) for distillate fuel oil No. 2. Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg.									
[7] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, Petroleum Products (07/2025). Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg.									
[8] CO _{2e} = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265									
[9] Emission factors taken from Table 3.4-3 and Table 3.4-4 of AP-42, Chapter 3.4.									

End of Calculation

Appendix A-8
Emission Calculations: Fuel System Piping Components
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION	
Emission Unit ID	EU10
Emission Unit Description	Natural Gas Fuel System Piping Components

B. FUGITIVE EMISSION FACTORS ^{[1],[2]}			
Components	Number of Components	Emission Factor per Component	Emission Rate
		kg/hr-source	kg TOC/hr
<i>Gas Service</i>			
Valve	960	4.50E-03	4.3
Connector	465	2.00E-04	0.09
Relief Valve	75	8.80E-03	0.7

C. GAS COMPOSITION^[3]				
Chemical Constituents	Molecular Weight	Mol %	Normalized Mol %	Wt %
	g/mol			
Hydrogen	2	0.01%	0.01%	0.001%
Oxygen	32	0.02%	0.02%	0.037%
Nitrogen	28	0.50%	0.50%	0.820%
Hydrogen Sulfide	34	0.10%	0.10%	0.199%
Carbon Dioxide	44	0.64%	0.64%	1.650%
Methane	16	94.07%	93.78%	88.172%
Ethane	30	4.60%	4.59%	8.084%
Propane	44	0.27%	0.27%	0.696%
Isobutane	58	0.03%	0.03%	0.102%
n-Butane	58	0.03%	0.03%	0.102%
Isopentane	72	0.01%	0.01%	0.042%
n-Pentane	72	0.01%	0.01%	0.042%
Hexanes Plus	86	0.01%	0.01%	0.050%
Helium	2	0.01%	0.01%	0.001%
Total	--	100.31%	100.00%	100.00%
TOC (wt %)	97.29%			
VOC (wt %)	1.03%			
Normalized VOC (wt %) ^[4]	1.06%			
Normalized Hexane (wt %) ^[4]	0.05%			
Normalized CO ₂ (wt %) ^[4]	1.70%			
Normalized CH ₄ (wt %) ^[4]	90.63%			

D. FUGITIVE EMISSIONS FROM NATURAL GAS		
Pollutant	Emissions (lb/hr)	Emissions (tons/yr)
TOC	11.18	48.99
VOCs	1.19E-01	5.21E-01
Hexane ^[5]	5.79E-03	2.54E-02
Methyl Mercaptan ^[6]	1.07E-04	4.70E-04
CO ₂	1.90E-01	8.31E-01
CH ₄	10.14	44.39
CO _{2e} ^[7]	283.99	1243.88

E. NOTES
[1] Emission factors taken from Table 2-4 in EPA document titled <i>Protocol for Equipment Leak Emission Estimates</i> - November 1995.
[2] The number of components is an estimate based on component counts at a sister facility.
[3] Gas composition data obtained from representative gas composition analysis conducted by Saybolt Laboratories in 2021.
[4] Normalized Pollutant (wt %) = Pollutant (wt %) / TOC (wt %)
[5] Classified as an individual South Carolina toxic air pollutant (TAP).
[6] Saybolt gas analysis measured 6.4 mg/kg of total sulfur. To estimate methyl mercaptan, concentration was conservatively calculated assuming all measured sulfur was from methyl mercaptan. The ratio of molar weights was used to convert the sulfur-only emission rate to a methyl mercaptan emission rate. Calculation: Methyl mercaptan (lb/hr) = 6.4 mg/kg of S / (10 ⁻⁶) * TOC (lb/hr) * (48.11 lb/lb-mol methyl mercaptan) / (32.066 lb/lb-mol sulfur)
[7] CO _{2e} = CO ₂ * GWP _{CO2} + CH ₄ * GWP _{CH4} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28

End of Calculation

Appendix A-9a
Emission Calculations: Fuel Oil Storage Tanks
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. TANK AND LOCAL INFORMATION	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Emission Unit ID	EU11	EU12	EU13	EU14A	EU14B	
Emission Unit Description	Generator Belly Tank	Generator Belly Tank	Generator Belly Tank	Fire Water Pump Belly Tank	Fire Water Pump Belly Tank	
Product Stored	Diesel	Diesel	Diesel	Diesel	Diesel	
Shell Color	Black	Black	Black	Black	Black	Tank color indicated on cut sheet for fire water pump design, and assumed same for both belly tanks.
Roof Color	Black	Black	Black	Black	Black	
Tank Shell Length, L_s (ft)	8.60	8.60	8.60	3.50	3.50	Dimensions were assumed to reach design volumes. In reality, each tank will be a rectangular belly tank.
Effective Height, H_e (ft)	7.07	7.07	7.07	3.14	3.14	AP-42, Ch. 7.1, Eqn. 1-15
Tank Diameter, D (ft)	9.00	9.00	9.00	4.00	4.00	Dimensions were assumed so that the total volume will equal 4,000 gallons. In reality, the tank will be a rectangular belly tank.
Tank Effective Diameter, D_e (ft)	9.93	9.93	9.93	4.22	4.22	AP-42, Ch. 7.1, Eqn. 1-14
Tank Shell Radius, R_s (ft)	4.50	4.50	4.50	2.00	2.00	Calculated
Tank Cone Roof Slope, S_R (ft/ft)	0.0625	0.0625	0.0625	0.0625	0.0625	AP-42, Ch. 7.1, Eqn 1-16, Note 1 (default assumption for cone roof used). In reality, the generator will sit on top of the tank.
Tank Volume, V (ft ³)	535	535	535	43	43	Calculated
Tank Volume, V (gal)	4,003	4,003	4,003	321	321	Design volume for generator belly tank is 4,000 gallons, and for fire water pump belly tank is 300 gallons.

B. OTHER TANK PARAMETERS	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Average Ambient Temp., T_{a0} (°F)	66	66	66	66	66	AP-42, Ch. 7.1, Eqn. 1-30 and Table 7.1-7 for Charleston, SC.
Storage Temp., T_R (°F)	66	66	66	66	66	Ambient
Storage Temp., T_R (°R)	526	526	526	526	526	Calculated T (°R) = T (°F) + 460
Local Atmospheric Pressure, P_a (psia)	14.68	14.68	14.68	14.68	14.68	AP-42, Ch. 7.1, Eqn. 1-5 and Table 7.1-7 for Charleston, SC.
Vapor Molecular Weight, (M_v) (lb/lb-mol)	130	130	130	130	130	AP-42, Ch. 7.1, Table 7.1-2, No. 2 Fuel Oil (Diesel)
Throughput, Q (gal/yr)	84,000	84,000	84,000	7,500	7,500	Based on 500 hours/year of operation and a peak fuel consumption rate for each engine, shown in Appendix B-8.
Throughput, Q (bbl/yr)	2,000	2,000	2,000	179	179	Conversion of gallons to barrels
% of Year Used	100	100	100	100	100	Worst case
Paint Solar Absorbance, α (dimensionless) Table 7.1-6	0.97	0.97	0.97	0.97	0.97	AP-42 Table 7.1-6 (For New Black Shell and Roof)
Solar Insolation, 1 (Btu/ft ² -day)	1,443	1,443	1,443	1,443	1,443	AP-42, Ch. 7.1, Table 7.1-7 for Charleston, SC.
Is Tank Welded? (Y/N)	Y	Y	Y	Y	Y	Assumption
Breather Vent Pressure Setting (default = 0.03), P_{BV} (psig)	0.03	0.03	0.03	0.03	0.03	AP-42, Ch. 7.1, Eqn. 1-10
Breather Vent Vacuum Setting (default = -0.03), P_{BV} (psig)	-0.03	-0.03	-0.03	-0.03	-0.03	AP-42, Ch. 7.1, Eqn. 1-10
Breather Vent Pressure Setting Range, ΔP_B (psig)	0.06	0.06	0.06	0.06	0.06	AP-42, Ch. 7.1, Eqn. 1-10
Maximum Liquid Height, H_L (ft)	7.07	7.07	7.07	3.14	3.14	For horizontal tanks = to the effective height (H_e), per AP-42, Ch. 7.1, Eqn. 1-37
Average Liquid Height, H_L (ft)	3.53	3.53	3.53	1.57	1.57	Half of Max
Tank Maximum Liquid Volume V_{LX} (ft ³)	450	450	450	39	39	AP-42, Ch. 7.1, Eqn. 60-4

C. TANK TEMPERATURE AND TURNOVER	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Tank Roof Height, H_R (ft)	0.28	0.28	0.28	0.13	0.13	AP-42, Ch. 7.1, Eqn. 1-18
Roof Outage, H_{RO} (ft)	0.09	0.09	0.09	0.04	0.04	AP-42, Ch. 7.1, Eqn. 1-17
Vapor Space Outage, H_{VO} (ft)	3.53	3.53	3.53	1.57	1.57	AP-42, Ch. 7.1, Eqn. 1-16 ($H_{VO} = H_L/2$)
Average Liquid Surface Temperature, T_{LS} (°R)	526	526	526	526	526	AP-42, Ch. 7.1, For insulated tanks, T_{LS} is based on T_R (Eqn. 8-2)
Average Liquid Surface Temperature, T_{LS} (°F)	66	66	66	66	66	Calculated T (°F) = T (°R) - 460
Daily Ambient Temperature Range, ΔT_A (°R)	18.70	18.70	18.70	18.70	18.70	AP-42, Ch. 7.1, Eqn. 1-11 and Table 7.1-7 for Charleston, SC.
Vapor Temperature Range, ΔT_V (°R)	41.1	41.1	41.1	41.1	41.1	Calculated, AP-42, Ch. 7.1, Eqn. 1-7
Maximum Liquid Surface Temperature, T_{LS} (°R)	536.0	536.0	536.0	536.0	536.0	Calculated, AP-42, Ch. 7.1, Figure 7.1-17
Maximum Liquid Surface Temperature, T_{LS} (°F)	76.3	76.3	76.3	76.3	76.3	Calculated T (°F) = T (°R) - 460
Minimum Liquid Surface Temperature, T_{LS} (°R)	515.4	515.4	515.4	515.4	515.4	Calculated, AP-42, Ch. 7.1, Figure 7.1-17
Minimum Liquid Surface Temperature, T_{LS} (°F)	55.4	55.4	55.4	55.4	55.4	Calculated T (°F) = T (°R) - 460
Stock Turnover Rate, N (turnovers/yr)	25.0	25.0	25.0	25.4	25.4	Calculated, AP-42, Ch. 7.1, Eqn. 60-3

D. VAPOR PRESSURE - Antoine Equation	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Vapor Pressure Equation Constant – A	12.101	12.101	12.101	12.101	12.101	AP-42, Ch. 7.1 Antoine Coefficients from Table 7.1-2
Vapor Pressure Equation Constant – B	8.907	8.907	8.907	8.907	8.907	AP-42, Ch. 7.1 Antoine Coefficients from Table 7.1-2
Vapor Pressure at Maximum Liquid Surface Temperature, P_{V2} (psia)	1.09E-02	1.09E-02	1.09E-02	1.09E-02	1.09E-02	AP-42, Ch. 7.1, Eqn. 1-25
Vapor Pressure at Average Liquid Surface Temperature, P_{V1} (psia)	7.90E-03	7.90E-03	7.90E-03	7.90E-03	7.90E-03	AP-42, Ch. 7.1, Eqn. 1-25
Vapor Pressure at Minimum Liquid Surface Temperature, P_{V3} (psia)	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	AP-42, Ch. 7.1, Eqn. 1-25

E. STANDING STORAGE LOSSES	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Tank Vapor Space Volume, V_V (ft ³)	273.6	273.6	273.6	22.0	22.0	Calculated, AP-42, Ch. 7.1, Eqn. 1-3 (uses effective diameter D_e)
Stock Vapor Density, W_V (lb/ft ³)	1.82E-04	1.82E-04	1.82E-04	1.82E-04	1.82E-04	Calculated, AP-42, Ch. 7.1, Eqn. 1-22
Daily Vapor Pressure Range, ΔP_V (psi)	5.29E-03	5.29E-03	5.29E-03	5.29E-03	5.29E-03	Calculated, AP-42, Ch. 7.1, Eqn. 1-9
Vapor Expansion Factor, K_2 (dimensionless)	0.074	0.074	0.074	0.074	0.074	Calculated, AP-42, Ch. 7.1, Eqn. 1-5
Vapor Saturation Factor, K_3 (dimensionless)	0.999	0.999	0.999	0.999	0.999	Calculated, AP-42, Ch. 7.1, Eqn. 1-21
Total Standing Losses, L_2 (lb/yr)	1.35E+00	1.35E+00	1.35E+00	1.09E-01	1.09E-01	Calculated, AP-42, Ch. 7.1, Eqn. 1-2

F. WORKING LOSS	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Net Working Loss Throughput, V_O (ft ³ /yr)	11,229	11,229	11,229	1,003	1,003	Calculated, AP-42, Ch. 7.1, Eqn. 1-35, Note 1
Working Loss Turnover Factor, K_6 (dimensionless)	1.368	1.368	1.368	1.348	1.348	Calculated, AP-42, Ch. 7.1, Eqn. 1-35; $K_6 = (180 \times N)/N$, for $N=36$
Working Loss Product Factor, K_7 (dimensionless)	1	1	1	1	1	$K_7 = 1$ for organic liquids other than crude oils (AP-42, 7.1-28)
Vent Setting Correction Factor, K_8 (dimensionless)	1	1	1	1	1	$K_8 = 1$ for vent setting range up to ± 0.03 psig (AP-42, 7.1-28)
Total Working Losses, L_W (lb/yr)	2.80E+00	2.80E+00	2.80E+00	2.46E-01	2.46E-01	Calculated, AP-42, Ch. 7.1, Eqn. 1-35

G. TOTAL ANNUAL EMISSIONS	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Total VOC Losses (lb/yr)	4.15	4.15	4.15	0.35	0.35	Calculated, AP-42, Ch. 7.1, Eqn. 1-1
Total VOC Losses (ton/yr)	2.07E-03	2.07E-03	2.07E-03	1.77E-04	1.77E-04	Converting pounds to tons

End of Calculation

Appendix A-9b
Emission Calculations: Fuel Oil Storage Tanks
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION		
Parameter	Input	Notes
Emission Unit ID	EU15, EU16	
Emission Unit Description	Large Fuel Oil Tank#1 and #2	
Tank Type	Vertical Fixed Roof Tank	
City, State	Walterboro, South Carolina	
Meteorological Location	Charleston, SC	
Chemical Name	No. 2 Fuel Oil (Diesel)	
Tank Volume	3,000,000 gallons	[1]
Annual Chemical Name	No. 2 Fuel Oil (Diesel)	
Annual Throughput	32,000,000 gal/year/tank	[2]

B. EMISSIONS ESTIMATES OBTAINED FROM EPA TANKS 5.1		
Annual Standing Losses (lb/yr)	192.06	[3]
Annual Working Losses (lb/yr)	815.14	[3]
Annual Total Losses (lb/yr)	1007.20	[3]
Annual Total Losses (ton/yr)	0.50	[4]
Number of Tanks	2	
Total Annual Losses for both tanks (ton/year)	1.01	

C. SUMMARY OF TANK CHARACTERISTICS USED FOR EPA TANKS 5.1		
Tank Shape	Cylinder	
Shell Height (ft)	40	[5]
Shell Diameter (ft)	120	[5]
Maximum Liquid Height (ft)	40	
Average Liquid Height (ft)	40	[5]
Minimum Liquid Height (ft)	0	
Roof Type	Dome	[5]
Vacuum Setting (psig)	-0.03	
Pressure Setting (psig)	0.03	
Vapor Space Pressure at Normal Operating Conditions (psig)	0	
Is Tank Insulated?	Not Insulated	
Tank Dome Roof Radius (ft)	120	[5]
Is Tank Equipped with a Control Device?	No Control Device	
Liquid Bulk Temperature Calculation Method	AP-42 Calculation	
Tank Bottom Type	flat	
Liquid Heel Type at Tank Minimum	none	
Shell Color/Shade	White	[6]
Shell Condition	New	[6]
Roof Color/Shade	White	[6]
Roof Condition	New	[6]

Continued on next page

D. SUMMARY OF EPA TANKS 5.1 CALCULATION OUTPUT		
Chemical Category of Liquid	Petroleum Liquids	
Sum of Increases in Liquid Level Method	AP-42 Calculation	
Working Loss Turnover Factor Method	AP-42 Calculation	
Annual Chemical Name	No. 2 Fuel Oil (Diesel)	
Annual Standing Losses (lb/yr)	192.06	
Annual Working Losses (lb/yr)	764.20	
Annual Vapor Space Volume (cu ft)	93,088.77	
Annual Stock Vapor Density (lb/cu ft)	0.0002	
Annual Average Vapor Space Expansion Factor	0.0297	
Annual Average Vented Vapor Saturation Factor	1.00	
Effective Diameter (ft)	120	
Vapor Space Outage (ft)	8.231	
Average Liquid Height (ft)	40	
Roof Outage (ft)	8.231	
Dome Radius (ft)	120	
Shell Radius (ft)	60	
Annual Average Vapor Molecular Weight (lb/lb-mole)	130	
Annual Average Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	0.008	
Annual Average Liquid Surface Temp (°R)	527.380	
Annual Average Ambient Temp (°R)	525.72	
Liquid Bulk Temperature (°R)	526.46	
Tank Paint Solar Absorptance (Shell)	0.17	
Tank Paint Solar Absorptance (Roof)	0.17	
Annual Average Vapor Temperature Range (°R)	17.739	
Annual Average Daily Vapor Pressure Range (psia)	0.002	
Breather Vent Press. Setting Range (psia)	0.06	
Annual Average Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia)	0.007	
Annual Average Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia)	0.010	
Annual Average Min. Liquid Surface Temp. (°R)	522.945	
Annual Average Max. Liquid Surface Temp. (°R)	531.814	
Annual Average Daily Ambient Temp. Range (°R)	18.7	
Vapor Space Pressure at Normal Operating Conditions (psig)	0	
Annual Throughput (gal/yr)	32,000,000 gal/year/tank	
Annual Turnovers	9.455	
Working Loss Turnover Factor	1	
Maximum Liquid Height (ft)	40	
Minimum Liquid Height (ft)	0	
Working Loss Product Factor	1	
Vent Setting Correction Factor	0.998	
Annual Sum of Increases in Liquid Level (ft/yr)	378.199	

E. NOTES
[1] Project to include two (2) 3-million gallon fuel oil storage tanks.
[2] Maximum annual throughput estimated based on fuel oil needed for maximum fuel oil operation for the three CTs, divided between the two 3-million gallon tanks: $[4000 \text{ MMBTU per CT-hr}] \times [1 \text{ lb FO per } 0.0193 \text{ MMBTU}] \div [7.1 \text{ lbs per gallon of FO}] \times [720 \text{ hours per year}] \times 3 \text{ CTs} = 63,000,000 \text{ gallons per year of fuel oil, divided between the two 3-million gallon fuel oil storage tanks (32,000,000 gallons/year).}$
[3] VOC losses were calculated using EPA TANKS 5.1.
[4] Unit conversion: 2000 lbs/ton
[5] Dimensions for domed fixed roof tank result in 3-million gallon tank volume, cylindrical shape, based on API 650 standard sizes. As roof radius not yet known, tank diameter was used in its place, per AP-42 Chapter 7.
[6] Tank shell and roof will be new and white.

Appendix A-9c
Emission Calculations: Fuel Oil Storage Tanks
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION		
Parameter	Input	Notes
Emission Unit ID	EU15, EU16	
Emission Unit Description	Large Fuel Oil Tank#1 and #2	
Parameters calculated by TANKS ^[1]		
Annual Average Vapor Molecular Weight (lb/lb-mole)	130	
Annual Average Liquid Surface Temp (°R)	527.38	
Annual Throughput (gal/yr)	32,000,000 gal/year/tank	
Annual Turnovers	9.45	
Annual Standing Losses (lb/yr)	192.06	
Annual Working Losses (lb/yr)	764.20	
Total Routine Losses (lb/yr)	956.26	
Working Losses Per Single Turnover (lb/turnover)	80.82	$Annual\ Working\ Losses \div Annual\ Turnovers$

B. VAPOR PRESSURE CALCULATIONS						
Constituents	Vapor Pressure Coefficient A ^[2] (dimensionless)	Vapor Pressure Coefficient B ^[2] (Deg C)	Vapor Pressure Coefficient C ^[2] (Deg C)	True Vapor pressure (P _{VA}) at T _{LA} ^[3] (psia)	Weight fraction in Fuel ^[4] Fraction	Basis Weight of Constituent (lbs)
1,2,4 Trimethylbenzene	7.04	1,573	209	0.028	1.00	1,000
Ethylbenzene	6.95	1,419	213	0.135	0.013	13.0
Hexane	6.88	1,172	224	2.33	1.00E-04	0.100
Toluene	7.02	1,378	223	0.419	0.032	32.0
Benzene	6.91	1,221	221	1.31	8.00E-04	0.800
Xylenes	7.02	1,474	218	0.127	0.290	290
Other				0.019	98.7	98,664
Total					100	100,000

C. VAPOR FRACTION CALCULATIONS						
Constituents	Molecular Weight (M _i) ^[2] (lb/lb-mole)	Basis Moles of Constituent (lb-mole)	Liquid Mole Fraction (X _i) Fraction	Partial Pressure (P _i) ^[5] (psia)	Vapor Mole Fraction (Y) ^[6] Fraction	Molecular Weight of the Vapor Stock (M _v) ^[7] (lb/lb-mole)
1,2,4 Trimethylbenzene	120	8.32	0.016	4.29E-04	0.021	2.54
Ethylbenzene	106	0.122	2.28E-04	3.08E-05	1.52E-03	0.161
Hexane	86.2	1.16E-03	2.16E-06	5.04E-06	2.48E-04	0.021
Toluene	92.1	0.347	6.48E-04	2.71E-04	0.013	1.23
Benzene	78.1	0.010	1.91E-05	2.51E-05	1.23E-03	0.096
Xylenes	106	2.73	5.09E-03	6.45E-04	0.032	3.37
Other	188	525	0.978	0.019	0.931	175
Total		536	1.00	0.020	1.00	182

D. SPECIATED EMISSION RATES				
Constituents	Total Annual Emissions ^[8] (lb/yr)	Daily Emissions from Standing Losses ^[9] (lb/day)	Emissions from One Turnover ^[10] (lb/turnover)	Total Daily Emissions ^[11] (lb/day)
1,2,4 Trimethylbenzene	18.67	0.010	1.58	1.59
Ethylbenzene	1.18	0.001	0.10	0.10
Hexane	0.16	0.000	0.01	0.01
Toluene	9.04	0.005	0.76	0.77
Benzene	0.71	0.0004	0.06	0.06
Xylenes	24.76	0.014	2.09	2.11

E. NOTES	
[1] Details of TANKS calculation are shown in Appendix A-9b.	
[2] Constituent properties and coefficients were obtained from AP-42 Section 7-1, Table 7.1-3.	
[3] Vapor pressure was calculated at the tank conditions for each constituent using Antoine's equation, as shown in AP-42 Section 7.1, Equation 1-28.	
[4] Assumed weight fraction for fuel oil based on permit application for similar facility.	
[5] Partial Pressure (psia) = True Vapor Pressure of constituent × Liquid Mole Fraction of constituent, as shown in AP-42 Section 7.1, Equation 1-25.	
[6] Vapor Mole Fraction = Partial pressure of each Constituent ÷ Total Vapor Pressure.	
[7] MW of the Vapor Stock (lb/lb-mole) = MW of species (lb/lb-mole) × Vapor Mole Fraction of species	
[8] Speciated Total Annual Emissions (lb/year) = Total Annual Emissions (lb/year) × Annual Average Vapor MW (lb/lb-mole) × MW of Species (lb/lb-mole) × Vapor Mole Fraction	
[9] Daily Emissions from Standing Losses (lb/day) = Annual Standing Losses (lb/year) ÷ (365 days/year) × Constituent Fraction	
[10] Emissions from One Turnover (lb/turnover) = Working Losses Per Single Turnover (lb/turnover) × Constituent Fraction	
[11] Total Daily Emissions (lb/day) = Daily Emissions from Standing Losses (lb/day) + Emissions from One Turnover (lb/turnover)	

End of Calculation

Appendix A-10
Emission Calculations: Circuit Breakers
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION AND GENERAL CALCULATION PARAMETERS			
Emission Unit ID	EU17		
Emission Unit Description	SF6 Circuit Breakers		
SF ₆ Leak Rate =	0.5%	[1]	
25 kV Breakers			
Number of Circuit Breakers	8	breakers	[2]
kV Rating	25	kV	
Quantity of SF ₆ Gas in Full Charge =	25	lb/breaker	
121 kV Breakers			
Number of Circuit Breakers	6	breakers	[2]
kV Rating	121	kV	
Quantity of SF ₆ Gas in Full Charge =	119	lb/breaker	
230 kV Breakers			
Number of Circuit Breakers	52	breakers	[2]
kV Rating	230	kV	
Quantity of SF ₆ Gas in Full Charge =	226	lb/breaker	

B. SF₆ EMISSION RATES			
Pollutant	Annual Emission Rate	SF₆ Global Warming Potential^[3]	Annual CO₂e Emission Rate
	tons/year		tons/year
SF ₆	3.17E-02	23,500	743.89

C. NOTES	
[1] From EPA's technical paper titled, "SF6 Leak Rates from High Voltage Circuit Breakers - U.S. EPA Investigates Potential Greenhouse Gas Emission Source - by J. Blackman, Program Manager, U.S. EPA and M. Averyt, ICF Consulting, and Z. Taylor, ICF Consulting". Used the worst-case estimate of 0.5% per year.	
[2] Circuit breaker type and quantity were provided by DESC, along with the SF6 charge for the 230 kV breaker. The SF6 charges for the two smaller breaker sizes were estimated based on the 230 kV breaker and a ratio of the circuit breaker kV size.	
[3] CO ₂ e = SF ₆ * GWP _{SF6} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). SF ₆ = 23,500.	

End of Calculation

Appendix A-11
Emission Calculations: Fuel Gas Heaters
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION				
Emission Unit Description	Fuel Gas (FG) Heaters, Natural Gas Fired		Small Low Pressure Heater, Natural Gas Fired	
Emission Unit IDs	EU18 - EU20		EU21	
Heat Input per Heater ^[1]	20.0	MMBtu/hr	3.0	MMBtu/hr
Number of Units	3	units	1	units
Hours of Operation	8,760	hrs/yr	8,760	hrs/yr
Higher Heating Value ^[2]	1,020	MMBtu/MMscf	1,020	MMBtu/MMscf

B. FUEL USAGE DATA			
Parameter	Fuel Usage		
	Single FG Heater ^[4]	Single Small Heater ^[4]	Total for All Heaters ^[5]
	MMscf/hr	MMscf/hr	MMscf/yr
Fuel Usage	1.96E-02	2.94E-03	541.06

C. EMISSION CALCULATIONS						
Criteria Pollutants						
Pollutant ^[3]	Emission Factor (lb/MMscf) ^[6]	Potential Emissions				
		Single FG Heater	Single Small Heater	Three FG Heaters	Single	Total for All Heaters
		lbs/hr ^[7]	lbs/hr ^[7]	tons/yr	tons/yr	tons/yr ^[8]
NO _x	100	1.9608E+00	2.94E-01	2.58E+01	1.29E+00	2.71E+01
CO	84	1.6471E+00	2.47E-01	2.16E+01	1.08E+00	2.27E+01
VOC	5.50	1.0784E-01	1.62E-02	1.42E+00	7.09E-02	1.49E+00
SO ₂	0.60	1.1765E-02	1.76E-03	1.55E-01	7.73E-03	1.62E-01
PM	7.60	1.4902E-01	2.24E-02	1.96E+00	9.79E-02	2.06E+00
PM ₁₀	7.60	1.4902E-01	2.24E-02	1.96E+00	9.79E-02	2.06E+00
PM _{2.5}	7.60	1.4902E-01	2.24E-02	1.96E+00	9.79E-02	2.06E+00
Greenhouse Gases ^[9]						
CO ₂	120,000	2.35E+03	3.53E+02	3.09E+04	1.55E+03	3.25E+04
CH ₄	2.30	4.51E-02	6.76E-03	5.93E-01	2.96E-02	6.22E-01
N ₂ O	2.20	4.31E-02	6.47E-03	5.67E-01	2.83E-02	5.95E-01
CO _{2e}	--	2.37E+03	3.55E+02	3.11E+04	1.55E+03	3.26E+04

Continued on Next Page

Hazardous Air Pollutants						
Pollutant	Emission Factor (lb/MMscf) ^[10]	Potential Emissions				
		Single FG Heater	Single Small Heater	Three FG Heaters	Single	Total for All Heaters
		lbs/hr ^[7]	lbs/hr ^[7]	tons/yr	tons/yr	tons/yr ^[8]
2-Methylnaphthalene	2.40E-05	4.71E-07	7.06E-08	6.18E-06	6.18E-04	6.49E-06
3-Methylchloranthrene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
7,12-Dimethylbenz(a)anthracene	1.60E-05	3.14E-07	4.71E-08	4.12E-06	4.12E-04	4.33E-06
Acenaphthene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Acenaphthylene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Anthracene	2.40E-06	4.71E-08	7.06E-09	6.18E-07	6.18E-05	6.49E-07
Arsenic	2.00E-04	3.92E-06	5.88E-07	5.15E-05	5.15E-03	5.41E-05
Benz(a)anthracene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Benzene	2.10E-03	4.12E-05	6.18E-06	5.41E-04	5.41E-02	5.68E-04
Benzo(a)pyrene	1.20E-06	2.35E-08	3.53E-09	3.09E-07	3.09E-05	3.25E-07
Benzo(b)fluoranthene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Benzo(g,h,i)perylene	1.20E-06	2.35E-08	3.53E-09	3.09E-07	3.09E-05	3.25E-07
Benzo(k)fluoranthene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Beryllium	1.20E-05	2.35E-07	3.53E-08	3.09E-06	3.09E-04	3.25E-06
Cadmium	1.10E-03	2.16E-05	3.24E-06	2.83E-04	2.83E-02	2.98E-04
Chromium	1.40E-03	2.75E-05	4.12E-06	3.61E-04	3.61E-02	3.79E-04
Chrysene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Cobalt	8.40E-05	1.65E-06	2.47E-07	2.16E-05	2.16E-03	2.27E-05
Dibenzo(a,h)anthracene	1.20E-06	2.35E-08	3.53E-09	3.09E-07	3.09E-05	3.25E-07
Dichlorobenzene	1.20E-03	2.35E-05	3.53E-06	3.09E-04	3.09E-02	3.25E-04
Fluoranthene	3.00E-06	5.88E-08	8.82E-09	7.73E-07	7.73E-05	8.12E-07
Fluorene	2.80E-06	5.49E-08	8.24E-09	7.21E-07	7.21E-05	7.57E-07
Formaldehyde	7.50E-02	1.47E-03	2.21E-04	1.93E-02	1.93E+00	2.03E-02
Hexane	1.80E+00	3.53E-02	5.29E-03	4.64E-01	4.64E+01	4.87E-01
Indeno(1,2,3-c,d)pyrene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Lead	5.00E-04	9.80E-06	1.47E-06	1.29E-04	1.29E-02	1.35E-04
Manganese	3.80E-04	7.45E-06	1.12E-06	9.79E-05	9.79E-03	1.03E-04
Mercury	2.60E-04	5.10E-06	7.65E-07	6.70E-05	6.70E-03	7.03E-05
Naphthalene	6.10E-04	1.20E-05	1.79E-06	1.57E-04	1.57E-02	1.65E-04
Nickel	2.10E-03	4.12E-05	6.18E-06	5.41E-04	5.41E-02	5.68E-04
Phenanthrene	1.70E-05	3.33E-07	5.00E-08	4.38E-06	4.38E-04	4.60E-06
Pyrene	5.00E-06	9.80E-08	1.47E-08	1.29E-06	1.29E-04	1.35E-06
Selenium	2.40E-05	4.71E-07	7.06E-08	6.18E-06	6.18E-04	6.49E-06
Toluene	3.40E-03	6.67E-05	1.00E-05	8.76E-04	8.76E-02	9.20E-04
Polycyclic Organic Matter (POM)	8.82E-05	1.73E-06	2.59E-07	2.27E-05	2.27E-03	2.39E-05
Maximum HAP	--	3.53E-02	5.29E-03	4.64E-01	4.64E+01	4.87E-01
Total HAPs		3.70E-02	5.55E-03	4.87E-01	4.87E+01	5.11E-01

D. NOTES
[1] Heat input provided by DESC.
[2] Higher heating value assumption per AP-42, Chapter 1, Section 1.4, Table 1.4-1, Footnote a.
[3] Total PM emission factor is sum of filterable and condensable. Conservatively set PM ₁₀ , PM _{2.5} equal to total PM.
[4] Fuel Usage (MMscf/hr) = Fuel Usage (MMBtu/hr) / Higher Heating Value (MMBtu/MMscf).
[5] Fuel Usage (MMscf/yr) = Fuel Usage (MMBtu/hr) × Hours of Operation (hrs/yr)
[6] Emission factors from AP-42, Chapter 1, Section 1.4, Tables 1.4-1 and 1.4-2, for Small Boilers less than 100 MMBTU/hr, uncontrolled.
[7] Potential Emissions (lbs/hr) = Emission Factor (lb/MMscf) × Potential Facility-Wide Natural Gas Usage (MMscf/hr).
[8] Potential Emissions (tons/yr) = Emission Factor (lb/MMscf) × Limited Facility-Wide Natural Gas Usage (MMscf/yr) × 1 ton/2,000 lbs.
[9] CO ₂ e = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265
[10] Emission factors from AP-42, Chapter 1, Section 1.4, Tables 1.4-3 and 1.4-4. Constituents of POM (and PAH) are listed individually as well as summed for total POM.

End of Calculation

Appendix A-12
Emission Calculations
Canadys Station | Walterboro, South Carolina
Revised July 2026

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Appendix A-13
Emission Calculations: Small Diesel Generators (Existing, Minor Support Equipment)
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION AND GENERAL CALCULATION PARAMETERS		
Emission Unit ID	EU22	Notes
Emission Unit Description	Emergency Generator Assoc. with Cell Tower (CT)	
Emission Unit Make/Model	Cummins Model C60 D6C	
Engine Rated Capacity	100 kW	[1]
	134.1 hp	kW to hp conversion
Diesel Heat Content	19,300 Btu/lb	[2]
	0.0193 MMBtu/lb	(19,300 Btu/lb / 1,000,000 Btu/MMBtu)
Average Fuel Density	7.1 lb/gal	[2]
Fuel Consumption Rate	8.9 gal/hr	[1]
	1.22 MMBtu/hr	(9 gal/hr * 7.1 lb/gal * 0.0193 MMBtu/lb)
Max Actual Annual Run Time	500 hrs/engine	[3]
Number of Emergency Engines	1 engines	
Diesel Sulfur Content	0.0015 weight %	
Fuel consumed per year	4,450 gal/year	(used for Fuel Tank throughputs)

B. EMISSION CALCULATIONS			
Criteria Pollutants			
Pollutant ^[4]	Emission Factor	Potential Emissions	
	lb/hp-hr	lb/hr	tons/year
NOx	3.10E-02	4.16	1.04
CO	6.68E-03	0.90	0.22
VOC	2.51E-03	0.34	0.08
SO ₂	2.05E-03	0.27	0.07
PM	2.20E-03	0.30	0.07
PM ₁₀	2.20E-03	0.30	0.07
PM _{2.5}	2.20E-03	0.30	0.07
Greenhouse Gases			
Pollutant	Emission Factor	Potential Emissions	
	lb/MMBtu	lb/hr	tons/year
CO ₂ ^[5]	163.05	199	50
CH ₄ ^[6]	6.61E-03	8.07E-03	2.02E-03
N ₂ O ^[6]	1.32E-03	1.61E-03	4.03E-04
CO _{2e} ^[7]	--	200	50
Hazardous Air Pollutants			
Pollutant	Emission Factor ^[8]	Potential Emissions	
	lb/MMBtu	lb/hr	tons/year
Benzene	9.33E-04	1.14E-03	2.84E-04
Toluene	4.09E-04	4.99E-04	1.25E-04
Xylenes	2.85E-04	3.48E-04	8.69E-05
1,3-Butadiene	3.91E-05	4.77E-05	1.19E-05
Formaldehyde	1.18E-03	1.44E-03	3.60E-04
Acetaldehyde	7.67E-04	9.35E-04	2.34E-04
Acrolein	9.25E-05	1.13E-04	2.82E-05
Naphthalene	8.48E-05	1.03E-04	2.59E-05
PAH	1.68E-04	2.05E-04	5.12E-05
Total HAPs	--	4.83E-03	1.21E-03

C. NOTES
[1] Fuel usage obtained from equipment name plate for the Cummins 60 kW generator. Engine size was estimated based on 60% efficiency. Note, SCDES Bureau of Air Quality Permitting Exemption List (Updated December 29, 2022), Section B, 6(i): "Sources with a total uncontrolled PTE of less than five (5) tons per year each of particulates, sulfur dioxide, nitrogen oxides, and carbon monoxide; and a total uncontrolled emission rate of less than 1000 lbs/month of volatile organic compounds (VOCs) will not require construction permits". Additionally, emergency or portable engines which are less than 150 kW rated capacity are exempt under Section B 2(i).
[2] Value taken from AP-42, Chapter 3.4.
[3] 500 hours/year of operation are used for potential emission calculations, although operation during an emergency is unlimited. 500 hours/year is based on EPA Guidance "Calculating Potential to Emit (PTE) for Emergency Generators," September 6, 1995.
[4] Emission factors from AP-42, Chapter 3.4, Table 3.3-1.
[5] Emission factor taken from 40 CFR Part 98 Subpart C, Table C-1 (07/2025) for distillate fuel oil No. 2. Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg.
[6] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, Petroleum Products (07/2025). Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg.
[7] CO _{2e} = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265
[8] Emission factors taken from Table 3.3-2 of AP-42, Chapter 3.3.

Appendix A-14
Emission Calculations: Small Gas Generator (Existing, Minor Support Equipment)
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS UNIT INFORMATION AND GENERAL CALCULATION PARAMETERS		
Emission Unit ID	EU23	
Emission Unit Description	Emergency Generator Assoc. with SIP Hut	[1]
Emission Unit Make/Model	Cummins Model 20GSBB-6714C	[1]
Fuel	Natural Gas (NG)/Propane	[1]
Max Hours of Operation	500 hr/yr	[1]
Engine Rated Capacity	33.33 kW	[2]
	45 bhp	[2]
Engine Heat Input	280 kBTU/hr	[3]
	0.28 MMBtu/hr	[3]
NG Heating Value	1,020 Btu/scf	[4]
Propane Heating Value	90,500 Btu/gal	[5]
	3.09 gal/hr	[6]
Propane Usage Rate	0.003 1000 gal/hr	[7]

B. EMISSION CALCULATIONS								
Criteria Pollutants								
Pollutant	Emission Factor		SIP Generator					
	Natural Gas [8]	Propane [9]	Natural Gas [10], [11]		Propane [10], [11]		Worst-Case [12]	
	lb/MMBtu	lb/1,000 gal	lb/hr	ton/year	lb/hr	ton/year	lb/hr	ton/year
NO _x	2.21	139	0.62	0.15	0.43	0.11	0.62	0.15
CO	3.72	129	1.04	0.26	0.40	0.10	1.04	0.26
VOC	2.96E-02	83	0.01	0.00	0.26	0.06	0.26	0.06
SO ₂	5.88E-04	0.35	1.65E-04	4.12E-05	1.08E-03	2.71E-04	1.08E-03	2.71E-04
PM	1.94E-02	5.0	5.43E-03	1.36E-03	1.55E-02	3.87E-03	1.55E-02	3.87E-03
PM ₁₀	1.94E-02	5.0	5.43E-03	1.36E-03	1.55E-02	3.87E-03	1.55E-02	3.87E-03
PM _{2.5}	1.94E-02	5.0	5.43E-03	1.36E-03	1.55E-02	3.87E-03	1.55E-02	3.87E-03
Greenhouse Gases								
Pollutant	Emission Factor		SIP Generator					
	Natural Gas	Propane	Natural Gas [10], [11]		Propane [10], [11]		Worst-Case [12]	
	lb/MMBtu	lb/MMBtu	lb/hr	ton/year	lb/hr	ton/year	lb/hr	ton/year
CO ₂ [13]	116.98	138.60	32.75	8.19	38.81	9.70	38.81	9.70
CH ₄ [14]	2.20E-03	6.61E-03	6.17E-04	1.54E-04	1.85E-03	4.63E-04	1.85E-03	4.63E-04
N ₂ O [14]	2.20E-04	1.32E-03	6.17E-05	1.54E-05	3.70E-04	9.26E-05	3.70E-04	9.26E-05
CO _{2e} [15]	--	--	33	8	39	10	38.96	9.74

Continued on next page

Hazardous Air Pollutants									
Pollutant ^[16]	HAP (Y/N)	Emission Factor		SIP Generator					
		Natural Gas ^[8]	Propane ^[9]	Natural Gas ^{[10], [11]}		Propane ^{[10], [11]}		Worst-Case ^[12]	
		lb/MMBtu	lb/1,000 gal	lb/hr	ton/year	lb/hr	ton/year	lb/hr	ton/year
1,1,2,2-Tetrachloroethane	Y	2.53E-05	3.62E-03	7.08E-06	1.77E-06	1.12E-05	2.80E-06	1.12E-05	2.80E-06
1,1,2-Trichloroethane	Y	1.53E-05	2.88E-03	4.28E-06	1.07E-06	8.91E-06	2.23E-06	8.91E-06	2.23E-06
1,2,4-Trimethylbenzene	N	-	1.29E-03	--	--	3.99E-06	9.98E-07	3.99E-06	9.98E-07
1,2,3-Trimethylbenzene	N	-	1.99E-03	--	--	6.16E-06	1.54E-06	6.16E-06	1.54E-06
1,3,5-Trimethylbenzene	N	-	2.93E-03	--	--	9.07E-06	2.27E-06	9.07E-06	2.27E-06
1,1-Dichloroethane	N	1.13E-05	2.05E-03	3.16E-06	7.91E-07	6.34E-06	1.59E-06	6.34E-06	1.59E-06
1,2-Dichloroethane	N	1.13E-05	2.14E-03	3.16E-06	7.91E-07	6.62E-06	1.66E-06	6.62E-06	1.66E-06
1,2-Dichloropropane	N	1.30E-05	2.43E-03	3.64E-06	9.10E-07	7.52E-06	1.88E-06	7.52E-06	1.88E-06
1,3-Butadiene	Y	6.63E-04	2.42E-02	1.86E-04	4.64E-05	7.49E-05	1.87E-05	1.86E-04	4.64E-05
1,3-Dichloropropene	Y	1.27E-05	2.39E-03	3.56E-06	8.89E-07	7.39E-06	1.85E-06	7.39E-06	1.85E-06
2-Methylnaphthalene	PAH	-	3.00E-03	--	--	9.28E-06	2.32E-06	9.28E-06	2.32E-06
2,2,4-Trimethylpentane	Y	-	2.17E-02	--	--	6.71E-05	1.68E-05	6.71E-05	1.68E-05
Acenaphthene	PAH	-	1.13E-04	--	--	3.50E-07	8.74E-08	3.50E-07	8.74E-08
Acenaphthylene	PAH	-	5.00E-04	--	--	1.55E-06	3.87E-07	1.55E-06	3.87E-07
Acetaldehyde	Y	2.79E-03	7.57E-01	7.81E-04	1.95E-04	2.34E-03	5.86E-04	2.34E-03	5.86E-04
Acrolein	Y	2.63E-03	4.65E-01	7.36E-04	1.84E-04	1.44E-03	3.60E-04	1.44E-03	3.60E-04
Benzo(b)fluoranthene	PAH	-	1.50E-05	--	--	4.64E-08	1.16E-08	4.64E-08	1.16E-08
Benzo(e)pyrene	PAH	-	3.76E-05	--	--	1.16E-07	2.91E-08	1.16E-07	2.91E-08
Benzo(k)fluoranthene	PAH	-	3.75E-05	--	--	1.16E-07	2.90E-08	1.16E-07	2.90E-08
Benzene	Y	1.58E-03	3.98E-02	4.42E-04	1.11E-04	1.23E-04	3.08E-05	4.42E-04	1.11E-04
Biphenyl	Y	-	1.84E-02	--	--	5.69E-05	1.42E-05	5.69E-05	1.42E-05
Carbon Tetrachloride	Y	1.77E-05	3.32E-03	4.96E-06	1.24E-06	1.03E-05	2.57E-06	1.03E-05	2.57E-06
Chlorobenzene	Y	1.29E-05	2.64E-03	3.61E-06	9.03E-07	8.16E-06	2.04E-06	8.16E-06	2.04E-06
Chloroform	Y	1.37E-05	2.58E-03	3.84E-06	9.59E-07	7.98E-06	2.00E-06	7.98E-06	2.00E-06
Chrysene	PAH	-	6.27E-05	--	--	1.94E-07	4.85E-08	1.94E-07	4.85E-08
Ethylbenzene	Y	2.48E-05	3.59E-03	6.94E-06	1.74E-06	1.11E-05	2.78E-06	1.11E-05	2.78E-06
Ethylene Dibromide	Y	2.13E-05	4.01E-03	5.96E-06	1.49E-06	1.24E-05	3.10E-06	1.24E-05	3.10E-06
Fluoranthene	PAH	-	1.00E-04	--	--	3.09E-07	7.73E-08	3.09E-07	7.73E-08
Fluorene	PAH	-	5.13E-04	--	--	1.59E-06	3.97E-07	1.59E-06	3.97E-07
Formaldehyde	Y	2.05E-02	4.78E+00	5.74E-03	1.44E-03	1.48E-02	3.70E-03	1.48E-02	3.70E-03
n-Hexane	Y	-	1.00E-01	--	--	3.09E-04	7.73E-05	3.09E-04	7.73E-05
Methanol	Y	3.06E-03	2.26E-01	8.57E-04	2.14E-04	6.99E-04	1.75E-04	8.57E-04	2.14E-04
Methylene Chloride	Y	4.12E-05	1.81E-03	1.15E-05	2.88E-06	5.60E-06	1.40E-06	1.15E-05	2.88E-06
Naphthalene	PAH	9.71E-05	6.73E-03	2.72E-05	6.80E-06	2.08E-05	5.21E-06	2.72E-05	6.80E-06
Phenanthrene	PAH	-	9.41E-04	--	--	2.91E-06	7.28E-07	2.91E-06	7.28E-07
Phenol	Y	-	2.08E-03	--	--	6.44E-06	1.61E-06	6.44E-06	1.61E-06
Pyrene	PAH	-	1.23E-04	--	--	3.81E-07	9.51E-08	3.81E-07	9.51E-08
PAH	Y	1.41E-04	1.22E-02	3.95E-05	9.87E-06	3.77E-05	9.42E-06	3.95E-05	9.87E-06
Styrene	Y	1.19E-05	2.14E-03	3.33E-06	8.33E-07	6.62E-06	1.66E-06	6.62E-06	1.66E-06
Toluene	Y	5.58E-04	3.69E-02	1.56E-04	3.91E-05	1.14E-04	2.85E-05	1.56E-04	3.91E-05
Vinyl Chloride	Y	7.18E-06	1.35E-03	2.01E-06	5.03E-07	4.18E-06	1.04E-06	4.18E-06	1.04E-06
Xylenes	Y	1.95E-04	1.67E-02	5.46E-05	1.37E-05	5.17E-05	1.29E-05	5.46E-05	1.37E-05
Polycyclic Organic Matter (POM)	Y	1.41E-04	1.22E-02	3.95E-05	9.87E-06	3.77E-05	9.42E-06	3.95E-05	9.87E-06
Total HAPs				9.05E-03	2.26E-03	2.02E-02	5.05E-03	2.08E-02	5.21E-03
Other Pollutants ^[9]									
Ammonia	N	-	0.3	--	--	9.28E-04	2.32E-04	9.28E-04	2.32E-04

C. NOTES
[1] This generator engine is existing minor support equipment, and is exempt from permitting. SCDES Bureau of Air Quality Permitting Exemption List (Updated December 29, 2022), Section B, 6(i): "Sources with a total uncontrolled PTE of less than five (5) tons per year each of particulates, sulfur dioxide, nitrogen oxides, and carbon monoxide; and a total uncontrolled emission rate of less than 1000 lbs/month of volatile organic compounds (VOCs) will not require construction permits." Additionally, emergency or portable engines which are less than 150 kW rated capacity are exempt under Section B 2(i). 500 hours/year of operation are used for potential emission calculations, although operation during an emergency is unlimited. 500 hours/year is based on EPA Guidance "Calculating Potential to Emit (PTE) for Emergency Generators," September 6, 1995.
[2] Generator size (kW) provided by the Facility. The engine size (kW) was estimated by assuming 60% efficiency. Units were converted using 1.34 bhp per kW.
[3] Engine heat input (kBtu/hr) obtained from name plate; units converted using 1,000 kBtu/MMBTU.
[4] Fuel Heating Value for natural gas from AP-42 Chapter 3.2.
[5] Fuel Heating Value for typical commercial grade propane from AP-42 Chapter 1.5.
[6] Propane Fuel Usage Rate (gal/hr) = Heat input (kBtu/hr) × Unit Conversion (1000 Btu/kBtu) ÷ Propane Heating Value (Btu/gal)
[7] Applied unit conversion of 1,000 gallons per 1000-gal.
[8] Emissions factors for natural gas combustion are from Table 3.2-3 of AP-42, Chapter 3.2 for a 4-stroke, rich burn natural gas engine.
[9] As there are no criteria pollutant or HAP emission factors for internal combustion of propane in AP-42, emission factors for propane fired internal combustion engines were obtained from "Combustion Default Emission Factors (Revised December 2024)", the South Coast Air Quality Management District were used. Given emission factors included ammonia. Accessed: https://www.aqmd.gov/docs/default-source/planning/annual-emission-reporting/combustion-default-emission-factors-2024.pdf?sfvrsn=9c358361_9 . HAP emission factors were obtained for 4 Stroke (Lean-Burn) ICE.
[10] Hourly Emissions (lbs/hr) = Heat Input Rating (MMBtu/hr) × Emission Factor (lb/MMBtu); or Hourly Emissions (lbs/hr) = Emission Factor (lb/1000 gal) x Heat Input (1000 gal/hr)
[11] Annual Emissions (tons/yr) = Hourly Emissions (lbs/hr) × Max Hours of Operation (hrs/yr) ÷ 2,000 lbs/ton
[12] Worst case emission rate between the two possible fuel types was selected for the potential emission rate for the generator.
[13] Emission factor taken from 40 CFR Part 98 Subpart C, Table C-1 (02/2026) for propane and natural gas. Converted to lbs/MMBTU from kg/MMBTU by multiplying by 2.20462 lbs/kg.
[14] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, for natural gas and Petroleum Products for propane (02/2026). Converted to lbs/MMBTU from kg/MMBTU by multiplying by 2.20462 lbs/kg.
[15] CO ₂ e = CO ₂ * GWP _{CO2} + CH ₄ * GWP _{CH4} + N ₂ O * GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265
[16] For natural gas fired, a single emission factor was available for total PAH. For propane fired, emission factors were available for constituents of POM (and PAH), so emissions were calculated individually as well as summed for total PAH. PAH is a subcategory of POM, and POM is a HAP. Compounds were identified as POM consistent with AP-42 Table 1.4-3.

End of calculation

Appendix A-15
Emission Calculations: Q Over D Analysis
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. CALCULATION OF Q ^[1]																	
Pollutant	Gas Turbines and Duct Burners		Auxiliary Boiler		Diesel-Fired Emergency Generators		Diesel-Fired Fire Water Pumps		Small Diesel-Fired Emergency Generator		Small Gas-Fired Emergency Generator		Fuel Gas Heaters		Cooling Equipment ^[3]		Total
	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	tons/year
Natural Gas Operation																	
NO _x	3416.50	623.51	88.53	16.16	156.18	28.50	3.74	0.68	4.16	0.76	0.62	0.11	148.24	27.05	--	--	696.78
SO ₂	625.50	114.15	1.41	0.26	0.107	0.02	0.01	0.001	0.27	0.05	0.001	0.0002	0.89	0.16	--	--	114.64
PM ₁₀	2878.50	525.33	17.85	3.26	1.41	0.26	0.120	0.022	0.30	0.05	0.02	0.003	11.27	2.06	28.01	5.11	536.09
Sulfuric Acid Mist	965.00	176.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	176.11
Q (tons/year):																	1523.62
Fuel Oil Operation																	
NO _x	6529.53	1191.64	88.53	16.16	156.18	28.50	3.74	0.68	4.16	0.76	0.62	0.11	148.24	27.05	--	--	1264.90
SO ₂	494.25	90.20	1.41	0.26	0.11	0.02	0.01	0.001	0.27	0.05	0.001	0.0002	0.89	0.16	--	--	90.69
PM ₁₀	7293.95	1331.15	17.85	3.26	1.41	0.26	0.12	0.02	0.30	0.05	0.02	0.003	11.27	2.06	28.01	5.11	1341.91
Sulfuric Acid Mist	930.38	169.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	169.79
Q (tons/year):																	2867.30

B. CALCULATION OF Q/D ^[2]			
Class I Area	Distance (D in km)	Q/D Analysis ^[2]	
		Q/D	Exceeds Threshold?
Natural Gas Operation			
Cape Romain National Wildlife Refuge	93	16.4	Yes
Wolf Island	202	7.5	No
Okefenokee Swamp	286	5.3	No
Fuel Oil Operation			
Cape Romain National Wildlife Refuge	93	30.8	Yes
Wolf Island	202	14.2	Yes
Okefenokee Swamp	286	10.0	Yes

C. NOTES
[1] Based Worst Case Daily Emission Rate, calculated for 365 days per year of operation.
[2] Q/D Analysis performed according to the <i>Federal Land Manager's (FLM) Air Quality Related Values (AQRV) Work Group (FLAG) Phase I Report - Revised (2010)</i> , which establishes the Q/D screening for sources greater than 50 km from a Class I Area. Specifically, annual emissions from the source (tons per year) are divided by the distance to the Class I Area (km), and compared to a screening threshold of 10.
[3] The reported values for the cooling equipment includes the total emissions from the six (6) inlet chiller cooling towers and the three (3) delugeable cooling systems.

End of Calculation

Appendix A-16
De Minimis Evaluation for Toxic Air Pollutants
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. TAP GENERATING EMISSION SOURCES		
Pollutant	Piping Component Fugitives	Large Fuel Oil Tank#1 and #2
	lb/day	lb/day
Hexane	1.39E-01	1.34E-02
Methyl Mercaptan	2.58E-03	-
Ethylbenzene	-	1.01E-01
Toluene	-	7.69E-01
Benzene	-	6.03E-02
Xylenes	-	2.11E+00

B. TAP DE-MINIMIS ANALYSIS ^[1]			
Pollutant	Plant Wide Emission Rate	De-Minimis Rate	Modeling Required?
	lb/day	lb/day	
Hexane	0.152	10.8	No
Methyl Mercaptan	0.003	0.12	No
Ethylbenzene	1.01E-01	52.2	No
Toluene	7.69E-01	24	No
Benzene	6.03E-02	1.8	No
Xylenes	2.11E+00	52.2	No

C. NOTES
[1] De-minimis rates obtained from Table B.1 of SCDES Modeling Guidelines for Air Quality Permits, Oct 2018 (Revised 1/9/2025).

End of Table

Appendix A-17
Emissions Calculations: Inlet Chillers
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION			
Emission Unit ID	EU24		
Emission Unit Description	Inlet Chiller Cooling Towers		
Hours of Operation	8,760	hrs/yr	
Number of Inlet Chillers	6	Units	
Number of Cells per Inlet Chiller	4	cells	
Water Circulation Rate	24,000	gpm	[1]
Total Liquid Drift	0.0005	%	[2]
Expected TDS/TSS of Circulated Water	1,500	ppmw	[3]
Weight Percent PM10 in Particulate Emissions	70.00	%	[4]
Weight Percent PM2.5 in Particulate Emissions	42.00	%	[4]

B. EMISSION CALCULATIONS			
Pollutant	Emission Rate - Per Inlet Chiller Cooling Tower		
	lb/hr	ton/yr	
PM	9.01E-02	3.95E-01	[5]
PM10	6.31E-02	2.76E-01	[5]
PM2.5	3.79E-02	1.66E-01	[5]
Pollutant	Emission Rate - Per Cell		
PM	2.25E-02	9.87E-02	[6]
PM10	1.58E-02	6.91E-02	[6]
PM2.5	9.46E-03	4.15E-02	[6]

C. NOTES
[1] Design Water Circulation Rate, Gallons/Minute (gpm).
[2] Design Total Liquid Drift, Percent (%): Drift rate typical of cross flow packaged cooling tower.
[3] Process Design Data of 1,500 ppmw in circulating water.
[4] PM10 and PM2.5 fractions are from the paper titled "Methodology to Calculate Particulate Matter (PM) 2.5 and PM2.5 Significance Thresholds", Krause and Smith, South Coast Air Quality Management District, 2006, Appendix A.
[5] Based on USEPA AP-42 Section 13.4 Wet Cooling Towers, Table 13.4-1 dated 1/95. Modified to Cooling Tower Design Emission Rate (lb/hr) = Water Circulation Rate (gpm) x 60 x Drift (%) / 100 x 8.3453 (lb/gal) x TDS (lb PM/1,000,000 lb water) x Weight Percent of Particle Size (%) / 100. Emission Rate (ton/yr) = Emission Rate (lb/hr) x 8,760 hr/yr / 2,000 lb/ton.
[6] Emission rate per cell = Emission rate total / Number of Cells.

End of Calculation

Appendix A-18
Emissions Calculations: Delugable Auxiliary Equipment Cooling Systems
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION			
Emission Unit ID	EU25		
Emission Unit Description	Delugable Cooling Systems		
Total Number of Deluged Cooling Systems	3		
Number of Cells per Cooling System	8		
Number of Dry Cells Per System	4		
Number of Wet Cells Per System	4		
Total Deluge Water Rate	25,000	gpm	
Total Liquid Drift	0.01	%	
Expected TDS/TSS of Circulated Water	300	ppmw	
Weight Percent PM10 in Particulate Emissions	70	%	[1]
Weight Percent PM2.5 in Particulate Emissions	42	%	[1]
Annual Hours of Operation	8760		

B. EMISSION CALCULATIONS			
Pollutant	Emission Rate - Per Deluged Cooling Systems		
	lb/hr	ton/yr	
PM	3.76E-01	1.64E+00	[2,3]
PM10	2.63E-01	1.15E+00	[2,3]
PM2.5	1.58E-01	6.91E-01	[2,3]
Pollutant	Emission Rate - Per Deluged Cell		
PM	9.39E-02	4.11E-01	[4]
PM10	6.57E-02	2.88E-01	[4]
PM2.5	3.94E-02	1.73E-01	[4]

C. NOTES
[1] PM10 and PM2.5 fractions are from the paper titled "Methodology to Calculate Particulate Matter (PM) 2.5 and PM2.5 Significance Thresholds", Krause and Smith, South Coast Air Quality Management District, 2006, Appendix A.
[2] Based on USEPA AP-42 Section 13.4 Wet Cooling Towers, Table 13.4-1 dated 1/95. Modified to Cooling Tower Design Emission Rate (lb/hr) = Water Circulation Rate (gpm) x 60 x Drift (%) / 100 x 8.3453 (lb/gal) x TDS (lb PM/1,000,000 lb water) x Weight Percent of Particle Size (%) / 100.
[3] Emission Rate (ton/yr) = Emission Rate (lb/hr) x 8,760 hr/yr x % Yearly Hours
[4] Emission rate per cell = Emission rate total / (Number of Deluged Bays).

End of Calculation

Appendix B

Manufacturer's Performance Data

Appendix B-1a
Mitsubishi Performance Data for Natural Gas-Firing
Canadys Station | Walterboro, South Carolina
March 2026

A. PROJECT INFORMATION														
Title Purpose Customer Name Project Name Mitsubishi Power Reference Number Revision Number/Letter Revision Date Revision Author Cycle Arrangement Mitsubishi Power Scope Gas Turbine Model Heat Rejection System Gas Turbine Fuel Analysis GT Fuel GT Fuel Analysis Duct Burner Fuel Analysis DB Fuel DB Fuel Analysis				Thermal Performance Estimates FOR INFORMATION ONLY Dominion Energy Canadys 20-0379 2 13-Jan-2026 W. Herrington 1x1 (MS) Multi-Shaft Combined-Cycle Power Train M501JAC Air-Cooled Condenser Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₃ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂ Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₃ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂										
				Notes 1. For assumptions and clarifications, please refer to notes provided on separate page.										
CUSTOMER CASE #				NG1	NG2	NG3	NG4	NG5	NG6	NG7	NG8	NG9	NG10	
PERFORMANCE CASE DESCRIPTION														
Case Notes				Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Chiller	Chiller	Chiller	
Ambient Dry Bulb Temperature				°F	-10.0	0.0	29.0	59.0	80.0	98.0	110.0	59.0	80.0	98.0
Barometric Pressure				psia	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
Relative Humidity				%	57.0	57.0	57.0	60.0	50.0	43.0	35.0	60.0	50.0	43.0
Type of Operation (Normal/Abnormal)					Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Type of Operation (Steady-State, Transient)					Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State
Type of Operation (Above MECL / Below MECL)					Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL
Number of GT's in Operation					1	1	1	1	1	1	1	1	1	1
GT Load (as % of baseload)				%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Inlet Chilling				Included	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
Expected Chiller Pressure Loss				inH2O	0.88	0.90	0.94	1.00	0.98	0.89	0.82	1.00	1.04	1.08
GAS TURBINE PERFORMANCE SUMMARY (PER GT)														
GT Fuel														
GT Fuel Gas Heating Temperature				°F	410.2	411.3	413.3	414.6	413.8	411.0	408.5	414.4	414.7	415.0
GT Fuel Heating Value, HHV				Btu/lb	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
GT Fuel Heating Value, LHV				Btu/lb	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4
GT Fuel Consumption (per GT)				lb/h	175,570	176,563	179,431	175,682	168,895	158,383	150,111	177,310	177,479	177,478
GT Heat Consumption, HHV (per GT)				MMBtu/h	4.076	4.099	4.166	4.079	3.921	3.677	3.485	4.117	4.121	4.121
GT Heat Consumption, LHV (per GT)				MMBtu/h	3.676	3.696	3.756	3.678	3.536	3.316	3.143	3.712	3.716	3.716

Continued on next page

CUSTOMER CASE #		NG1	NG2	NG3	NG4	NG5	NG6	NG7	NG8	NG9	NG10
PLANT PERFORMANCE SUMMARY											
Duct Burner Status	ON/OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
DB Fuel Heating Value, HHV	Btu/lb	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
Duct Burner Fuel Consumption (per HRSG)	lb/h	0	0	0	0	0	0	0	0	0	0
Estimated Duct Burner Heat Consumption, HHV (per HRSG)	MMBtu/h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ST Back Pressure	inHga	1.96	1.96	1.97	1.97	2.49	4.00	5.47	1.97	2.52	4.16
Estimated Gross Power Train Performance											
Estimated Gross GTG Output (Multi-Shaft) Total	kW	454,100	457,850	473,600	458,270	436,100	404,540	378,860	464,390	464,710	464,710
Estimated Gross STG Output (Multi-Shaft)	kW	198,230	201,600	206,890	208,800	202,800	182,280	164,940	208,810	206,170	192,910
Estimated Gross Power Train Output	kW	652,330	659,460	680,500	667,070	638,900	586,830	543,810	673,200	670,890	657,630
Estimated Power Train Auxiliary Loads											
Estimated Power Train Auxiliary Loads (Mitsubishi Power)	kW	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160
Estimated Net Power Train Performance											
Estimated Net Power Train Output	kW	650,170	657,300	678,340	664,910	636,740	584,670	541,650	671,040	668,730	655,470
Estimated Net Power Train Heat Rate, HHV	Btu/kWh	6,269	6,236	6,141	6,134	6,158	6,289	6,434	6,134	6,161	6,286
Estimated Net Power Train Heat Rate, LHV	Btu/kWh	5,652	5,623	5,537	5,531	5,552	5,670	5,801	5,531	5,555	5,668
STACK EXHAUST CONDITIONS AND EMISSIONS SUMMARY (PER STACK)											
Stack Exhaust											
Stack Exhaust Flow (Mass)	kpph	6,552	6,559	6,653	6,645	6,449	6,045	5,725	6,653	6,649	6,649
Stack Exhaust Flow (Volume) - Actual	ft3/min	1,793,391	1,794,619	1,822,044	1,826,158	1,783,921	1,689,451	1,610,793	1,828,120	1,838,880	1,862,854
Stack Exhaust Flow (Volume) - DSCFM	ft3/min	1,323,954	1,324,512	1,341,337	1,335,371	1,290,974	1,202,698	1,135,675	1,336,330	1,333,377	1,333,377
Stack Exhaust Gas Temperature	°F	177	176.5	176.7	177	180	185	188	177	181	189
Stack Exhaust Gas Composition											
O2	mol%	10.83	10.78	10.72	10.80	10.77	10.62	10.55	10.72	10.67	10.67
CO2	mol%	4.68	4.71	4.71	4.61	4.56	4.55	4.54	4.65	4.65	4.65
H2O	mol%	9.10	9.19	9.40	9.90	10.47	11.29	11.70	9.96	10.17	10.17
N2	mol%	74.46	74.39	74.24	73.76	73.28	72.63	72.31	73.74	73.58	73.58
Ar	mol%	0.94	0.93	0.93	0.93	0.92	0.91	0.91	0.93	0.93	0.93
Stack Exhaust Gas Molecular Weight		28.40	28.39	28.37	28.30	28.23	28.14	28.10	28.30	28.28	28.28
STACK EXHAUST EMISSIONS (PER STACK)											
NOx	ppmvd@15% O2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
NOx	lb/h	36.0	36.0	36.0	36.0	34.0	32.0	31.0	36.0	36.0	36.0
NOx	lb/MMBtu - HHV	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
CO	ppmvd@15% O2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
CO	lb/h	22.0	22.0	22.0	22.0	21.0	20.0	19.0	22.0	22.0	22.0
CO	lb/MMBtu - HHV	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
VOC (includes Formadehyde)	ppmvd@15% O2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VOC (includes Formadehyde)	lb/h	7.00	7.00	7.00	7.00	6.00	6.00	6.00	7.00	7.00	7.00
VOC (includes Formadehyde)	lb/MMBtu - HHV	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Formaldehyde (CH2O)	ppbvd@15% O2	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
Formaldehyde (CH2O)	lb/h	2.0	2.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0
Formaldehyde (CH2O)	lb/MMBtu - HHV	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
H2SO4	lb/h	12.0	12.0	13.0	12.0	12.0	11.0	11.0	12.0	12.0	12.0
H2SO4	lb/MMBtu - HHV	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
SO2 (before conversion to SO3)	lb/h	7.0	7.0	7.0	7.0	7.0	7.0	6.0	7.0	7.0	7.0
SO2 (before conversion to SO3)	lb/MMBtu - HHV	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Particulates (PM10 Filterable)	lb/h	25.00	25.00	25.00	25.00	24.00	22.00	21.00	25.00	25.00	25.00
Particulates (PM10 Filterable)	lb/MMBtu - HHV	0.006	0.00600	0.00600	0.00600	0.00600	0.00600	0.00600	0.00600	0.00600	0.00600
Particulates (PM10 Condensable, as (NH4)2SO4)	lb/h	25.00	25.00	25.00	25.00	24.00	22.00	21.00	25.00	25.00	25.00
Particulates (PM10 Condensable, as (NH4)2SO4)	lb/MMBtu - HHV	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Ammonia Slip (NH3)	ppmvd@15% O2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Ammonia Slip (NH3)	lb/h	30.0	30.0	31.0	30.0	29.0	27.0	26.0	31.0	31.0	31.0
Ammonia Slip (NH3)	lb/MMBtu - HHV	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
CO2e (i.e. CO2 equivalent) (based on EPA Emission Factor)	lb/h	533,700	536,700	545,400	534,000	513,400	481,400	456,300	538,900	539,500	539,500
CO2e (i.e. CO2 equivalent) (based on EPA Emission Factor)	lb/MMBtu - HHV	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0
Estimated CO2 (based on EPA Emission Factor), For Information Only		533,200	536,200	544,900	533,500	512,900	481,000	455,900	538,500	539,000	539,000

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Appendix B-1b
Mitsubishi Performance Data for Natural Gas-Firing
Canadys Station | Walterboro, South Carolina
March 2026

Thermal Performance Estimates FOR INFORMATION ONLY Dominion Energy Canadys 20-0379 2 13-Jan-2026 W. Herrington 1x1 (MS) Multi-Shaft Combined-Cycle Power Train M501JAC Air-Cooled Condenser Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₅ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂ Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₅ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂ Notes 1. For assumptions and clarifications, please refer to notes provided on separate page.																	
NG11	NG12	NG13	NG14	NG15	NG16	NG17	NG18	NG19	NG20	NG21	NG22	NG23	NG24	NG25	NG26	NG27	NG28
Chiller	Duct Fired	Duct Fired	Duct Fired	Duct Fired	Duct Fired	Duct Fired	Duct Fired	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Duct Fired	Duct Fired	Duct Fired	Duct Fired	Duct Fired	Duct Fired
110.0	-10.0	0.0	29.0	59.0	80.0	98.0	110.0	59.0	80.0	98.0	110.0	-10.0	0.0	29.0	59.0	80.0	98.0
14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
35.0	57.0	57.0	57.0	60.0	50.0	43.0	35.0	60.0	50.0	43.0	35.0	57.0	57.0	57.0	60.0	50.0	43.0
Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State
Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
1.10	0.88	0.90	0.94	1.00	0.98	0.89	0.82	1.00	1.04	1.08	1.10	0.88	0.90	0.94	1.00	0.98	0.89
415.2	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4
177,477	175,479	176,477	179,354	175,613	168,825	158,304	150,025	177,239	177,410	177,410	177,410	175,479	176,477	179,354	175,613	168,825	158,304
4,121	4,074	4,097	4,164	4,077	3,920	3,675	3,483	4,115	4,119	4,119	4,119	4,074	4,097	4,164	4,077	3,920	3,675
3,716	3,674	3,695	3,755	3,676	3,534	3,314	3,141	3,711	3,714	3,714	3,714	3,674	3,695	3,755	3,676	3,534	3,314

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NG11	NG12	NG13	NG14	NG15	NG16	NG17	NG18	NG19	NG20	NG21	NG22	NG23	NG24	NG25	NG26	NG27	NG28
OFF	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
0	21,577	21,577	21,575	21,575	21,578	21,584	21,590	21,575	21,575	21,575	21,575	36,679	36,679	36,676	36,676	36,680	36,691
0.0	500.9	500.9	500.9	500.9	501.0	501.1	501.2	500.9	500.9	500.9	500.9	851.5	851.5	851.5	851.5	851.6	851.8
5.81	2.03	2.03	2.04	2.05	2.96	4.73	6.43	2.05	3.00	4.92	6.83	2.08	2.09	2.10	2.10	3.33	5.29
464,710	454,100	457,850	473,600	458,270	436,100	404,540	378,860	464,390	464,710	464,710	464,710	454,100	457,850	473,600	458,270	436,100	404,540
180,890	260,150	263,000	268,330	270,370	263,580	241,380	221,550	270,350	267,030	252,340	238,080	302,110	304,870	310,320	312,510	305,640	282,330
645,610	714,250	720,860	741,940	728,650	699,680	645,920	600,420	734,740	731,740	717,060	702,800	756,210	762,720	783,920	770,790	741,740	686,870
2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160
643,450	712,090	718,700	739,780	726,490	697,520	643,760	598,260	732,580	729,580	714,900	700,640	754,050	760,560	781,760	768,630	739,580	684,710
6,403	6,425	6,398	6,306	6,301	6,337	6,487	6,660	6,301	6,332	6,462	6,593	6,532	6,507	6,415	6,412	6,451	6,612
5,774	5,793	5,768	5,685	5,682	5,714	5,849	6,005	5,681	5,709	5,826	5,945	5,889	5,866	5,784	5,781	5,816	5,961
6,649	6,573	6,581	6,674	6,666	6,471	6,066	5,746	6,675	6,670	6,670	6,670	6,588	6,596	6,689	6,681	6,486	6,081
1,882,011	1,760,631	1,762,156	1,789,520	1,792,750	1,754,423	1,659,248	1,585,495	1,795,005	1,808,586	1,828,479	1,849,610	1,762,179	1,764,685	1,791,050	1,792,916	1,745,722	1,649,755
1,333,377	1,315,894	1,316,454	1,333,280	1,327,316	1,282,919	1,194,643	1,127,619	1,328,274	1,325,322	1,325,322	1,325,322	1,310,266	1,310,825	1,327,652	1,321,687	1,277,291	1,189,015
196	162	162	162	162	166	169	174	162	167	174	181	160	160	160	160	160	163
10.67	9.64	9.60	9.55	9.64	9.58	9.35	9.21	9.56	9.50	9.50	9.50	8.82	8.78	8.74	8.83	8.75	8.47
4.65	5.23	5.25	5.25	5.15	5.11	5.13	5.16	5.19	5.19	5.19	5.19	5.61	5.63	5.62	5.52	5.49	5.54
10.17	10.15	10.24	10.44	10.93	11.53	12.42	12.88	10.99	11.20	11.20	11.20	10.89	10.98	11.16	11.65	12.27	13.20
73.58	74.04	73.98	73.83	73.36	72.87	72.19	71.85	73.34	73.18	73.18	73.18	73.75	73.69	73.55	73.08	72.58	71.89
0.93	0.93	0.93	0.93	0.92	0.91	0.90	0.90	0.92	0.92	0.92	0.92	0.93	0.92	0.92	0.92	0.91	0.90
28.28	28.33	28.32	28.30	28.24	28.17	28.07	28.03	28.23	28.21	28.21	28.21	28.28	28.28	28.26	28.19	28.12	28.03
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
36.0	40.0	40.0	41.0	40.0	39.0	37.0	35.0	40.0	40.0	40.0	40.0	43.0	43.0	44.0	43.0	42.0	40.0
0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
22.0	25.0	25.0	25.0	25.0	24.0	22.0	21.0	25.0	25.0	25.0	25.0	26.0	27.0	27.0	26.0	26.0	24.0
0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
7.00	14.00	14.00	15.00	14.00	14.00	13.00	13.00	14.00	14.00	14.00	14.00	15.00	15.00	16.00	15.00	15.00	14.00
0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12.0	14.0	14.0	14.0	14.0	13.0	13.0	12.0	14.0	14.0	14.0	14.0	15.0	15.0	15.0	15.0	14.0	14.0
0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
7.0	8.0	8.0	8.0	8.0	8.0	8.0	7.0	8.0	8.0	8.0	8.0	9.0	9.0	9.0	9.0	8.0	8.0
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
25.00	35.00	35.00	35.00	35.00	34.00	32.00	31.00	35.00	35.00	35.00	35.00	42.00	42.00	42.00	42.00	41.00	39.00
0.00600	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00900	0.00900	0.00900	0.00900	0.00900	0.00900
25.00	35.00	35.00	35.00	35.00	34.00	32.00	31.00	35.00	35.00	35.00	35.00	42.00	42.00	42.00	42.00	41.00	39.00
0.006	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
31.0	34.0	34.0	35.0	34.0	33.0	31.0	30.0	34.0	34.0	34.0	34.0	37.0	37.0	37.0	37.0	35.0	34.0
0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
539,500	598,800	601,900	610,600	599,300	578,600	546,600	521,500	604,200	604,700	604,700	604,700	644,700	647,700	656,400	645,100	624,400	592,500
131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0
539,000	532,900	535,900	544,700	533,300	512,700	480,700	455,600	538,300	538,800	538,800	538,800	532,900	535,900	544,700	533,300	512,700	480,700

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Appendix B-1c
Mitsubishi Performance Data for Natural Gas-Firing
Canadys Station | Walterboro, South Carolina
March 2026

Thermal Performance Estimates FOR INFORMATION ONLY Dominion Energy Canadys 20-0379 2 13-Jan-2026 W. Herrington 1x1 (MS) Multi-Shaft Combined-Cycle Power Train M501JAC Air-Cooled Condenser Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₅ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂ Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₅ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂ Notes 1. For assumptions and clarifications, please refer to notes provided on separate page.																		
NG29	NG30	NG31	NG32	NG33	NG34	NG35	NG36	NG37	NG38	NG39	NG40	NG41	NG42	NG43	NG44	NG45	NG46	NG47
Duct Fired	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Part Load	Part Load	Part Load	Part Load	Part Load	Part Load	Part Load	MECL	MECL	MECL	MECL	MECL	MECL	MECL
110.0	59.0	80.0	98.0	110.0	-10.0	0.0	29.0	59.0	80.0	98.0	110.0	-10.0	0.0	29.0	59.0	80.0	98.0	110.0
14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
35.0	60.0	50.0	43.0	35.0	57.0	57.0	57.0	60.0	50.0	43.0	35.0	57.0	57.0	57.0	60.0	50.0	43.0	35.0
Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State
Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100%	100%	100%	100%	100%	70%	70%	70%	70%	70%	70%	70%	46%	44%	38%	35%	36%	41%	45%
OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0.82	1.00	1.04	1.08	1.10	0.54	0.55	0.62	0.55	0.55	0.52	0.49	0.65	0.63	0.60	0.60	0.63	0.66	0.64
428.0	428.0	428.0	428.0	428.0	393.1	393.4	395.8	391.9	393.2	392.7	391.6	398.6	397.7	395.5	394.8	396.9	399.4	398.9
23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4
150,025	177,239	177,410	177,410	177,410	133,154	133,204	135,891	128,433	125,326	119,697	114,703	117,760	114,764	106,933	101,160	101,040	103,738	102,998
3,483	4,115	4,119	4,119	4,119	3,092	3,093	3,155	2,982	2,910	2,779	2,663	2,734	2,665	2,483	2,349	2,346	2,409	2,392
3,141	3,711	3,714	3,714	3,714	2,788	2,789	2,845	2,689	2,624	2,506	2,401	2,465	2,403	2,239	2,118	2,116	2,172	2,156

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NG29	NG30	NG31	NG32	NG33	NG34	NG35	NG36	NG37	NG38	NG39	NG40	NG41	NG42	NG43	NG44	NG45	NG46	NG47
ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
36,702	36,676	36,676	36,676	36,676	0	0	0	0	0	0	0	0	0	0	0	0	0	0
852.1	851.4	851.5	851.5	851.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.17	2.10	3.36	5.50	7.62	1.91	1.91	1.92	1.91	2.11	3.52	4.89	1.92	1.91	1.91	1.91	2.12	3.61	5.03
378,860	464,390	464,710	464,710	464,710	316,980	319,620	330,660	319,890	304,350	282,430	264,750	207,920	200,010	178,040	158,870	155,070	165,930	169,280
261,060	312,470	309,160	293,430	277,840	157,560	157,990	162,690	154,500	155,580	142,070	129,610	162,070	160,170	155,560	153,410	155,980	148,660	137,280
639,930	776,860	773,880	758,150	742,560	474,550	477,620	493,360	474,390	459,930	424,510	394,360	370,000	360,190	333,600	312,290	311,060	314,600	306,570
2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160
637,770	774,700	771,720	755,990	740,400	472,390	475,460	491,200	472,230	457,770	422,350	392,200	367,840	358,030	331,440	310,130	308,900	312,440	304,410
6,797	6,411	6,440	6,574	6,713	6,544	6,504	6,423	6,314	6,356	6,580	6,790	7,432	7,442	7,490	7,573	7,594	7,708	7,855
6,129	5,780	5,807	5,928	6,053	5,900	5,864	5,791	5,693	5,731	5,932	6,122	6,701	6,710	6,753	6,828	6,847	6,950	7,082
5,761	6,690	6,686	6,686	6,686	5,037	5,049	5,236	4,920	4,835	4,635	4,449	5,452	5,329	5,019	4,889	4,932	5,010	4,956
1,579,717	1,795,408	1,799,288	1,816,342	1,840,241	1,353,623	1,357,236	1,413,458	1,327,024	1,306,573	1,266,220	1,223,376	1,474,666	1,437,657	1,346,396	1,312,430	1,331,433	1,375,547	1,375,051
1,121,993	1,322,646	1,319,694	1,319,694	1,319,694	1,018,834	1,021,248	1,058,866	989,953	968,705	923,349	883,911	1,118,514	1,093,094	1,028,667	999,546	1,003,896	1,013,097	999,188
169	160	161	167	175	166	166	168	166	165	170	173	172	170	166	165	167	176	181
8.28	8.75	8.70	8.70	8.70	10.97	10.99	11.11	10.94	10.88	10.77	10.72	12.73	12.75	12.80	12.91	12.86	12.62	12.52
5.59	5.56	5.56	5.56	5.56	4.62	4.61	4.53	4.55	4.50	4.47	4.46	3.82	3.81	3.77	3.65	3.60	3.63	3.64
13.70	11.71	11.92	11.92	11.92	8.99	9.00	9.06	9.76	10.38	11.16	11.55	7.38	7.38	7.52	7.93	8.59	9.50	9.92
71.54	73.06	72.90	72.90	72.90	74.48	74.46	74.37	73.83	73.32	72.69	72.37	75.17	75.16	75.02	74.61	74.06	73.37	73.05
0.90	0.92	0.92	0.92	0.92	0.94	0.94	0.93	0.93	0.92	0.91	0.91	0.90	0.90	0.90	0.89	0.89	0.88	0.88
27.97	28.19	28.17	28.17	28.17	28.40	28.40	28.39	28.31	28.24	28.15	28.11	28.50	28.50	28.48	28.43	28.35	28.25	28.21
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
38.0	43.0	43.0	43.0	43.0	27.0	27.0	28.0	26.0	26.0	24.0	23.0	24.0	24.0	24.0	21.0	21.0	21.0	21.0
0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
23.0	27.0	27.0	27.0	27.0	17.0	17.0	17.0	16.0	16.0	15.0	14.0	15.0	15.0	14.0	13.0	13.0	13.0	13.0
0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14.00	15.00	15.00	15.00	15.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	4.00	4.00	4.00	4.00	4.00
0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
13.0	15.0	15.0	15.0	15.0	9.0	9.0	10.0	9.0	9.0	8.0	8.0	8.0	8.0	7.0	7.0	7.0	7.0	7.0
0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
8.0	9.0	9.0	9.0	9.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	4.0
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
38.00	42.00	42.00	42.00	42.00	19.00	19.00	19.00	18.00	18.00	17.00	16.00	18.00	18.00	16.00	16.00	16.00	16.00	16.00
0.00900	0.00900	0.00900	0.00900	0.00900	0.00600	0.00600	0.00600	0.00600	0.00600	0.00600	0.00700	0.00700	0.00700	0.00700	0.00700	0.00700	0.00700	0.00700
38.00	42.00	42.00	42.00	42.00	19.00	19.00	19.00	18.00	18.00	17.00	16.00	18.00	18.00	16.00	16.00	16.00	16.00	16.00
0.009	0.009	0.009	0.009	0.009	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
32.0	37.0	37.0	37.0	37.0	23.0	23.0	24.0	22.0	22.0	21.0	20.0	21.0	20.0	19.0	18.0	18.0	18.0	18.0
0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
567,300	650,500	650,500	650,500	650,500	404,700	404,900	413,100	390,400	381,000	363,800	348,700	358,000	348,900	325,000	307,500	307,100	315,300	313,100
131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0
455,600	538,300	538,800	538,800	538,800	404,500	404,600	412,700	390,100	380,600	363,500	348,300	357,600	348,600	324,800	307,300	306,900	315,100	312,900

End of NG Performance Data

Appendix B-2a
Mitsubishi Performance Data for Fuel Oil-Firing
Canadys Station | Walterboro, South Carolina
March 2026

A. PROJECT INFORMATION						
Title Purpose Customer Name Project Name Mitsubishi Power Reference Number Revision Number/Letter Revision Date Revision Author Cycle Arrangement Mitsubishi Power Scope Gas Turbine Model Heat Rejection System Gas Turbine Fuel Analysis GT Fuel GT Fuel Analysis						
CUSTOMER CASE #	FO1	FO2	FO3	FO4	FO5	FO6
PERFORMANCE CASE DESCRIPTION						
Case Notes	Base Load	Base Load	Base Load	Base Load	Base Load	Base Load
Ambient Dry Bulb Temperature °F	-10.0	0.0	29.0	59.0	80.0	98.0
Barometric Pressure psia	14.650	14.650	14.650	14.650	14.650	14.650
Relative Humidity %	57.0	57.0	57.0	60.0	50.0	43.0
Type of Operation (Normal/Abnormal)	Normal	Normal	Normal	Normal	Normal	Normal
Type of Operation (Steady-State, Transient)	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State
Type of Operation (Above MECL / Below MECL)	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL
Number of GT's in Operation	1	1	1	1	1	1
GT Load (as % of baseload) %	100%	100%	100%	100%	100%	100%
Expected Chiller Pressure Loss inH2O	0.77	0.78	0.86	0.97	0.98	0.89
GAS TURBINE PERFORMANCE SUMMARY (PER GT)						
GT Injection Flow (Water Injection) lb/h	157,238	158,766	163,312	164,198	158,693	148,506
GT Injection Ratio (Injection Flow / Fuel Flow) -	0.93	0.93	0.93	0.93	0.93	0.93
GT Fuel						
GT Fuel Gas Heating Temperature °F	N/A	N/A	N/A	N/A	N/A	N/A
GT Fuel Heating Value, HHV Btu/lb	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2
GT Fuel Heating Value, LHV Btu/lb	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0
GT Fuel Consumption (per GT) lb/h	169,548	171,183	176,049	176,978	171,058	160,126
GT Heat Consumption, HHV (per GT) MMBtu/h	3,348	3,380	3,476	3,495	3,378	3,162
GT Heat Consumption, LHV (per GT) MMBtu/h	3,137	3,167	3,257	3,275	3,165	2,963

Continued on next page

PLANT PERFORMANCE SUMMARY		FO1	FO2	FO3	FO4	FO5	FO6
ST Back Pressure	inHga	1.89	1.89	1.89	1.90	2.01	3.32
Estimated Gross Power Train Performance							
Estimated Gross GTG Output (Multi-Shaft) Total	kW	342,780	351,560	371,990	372,550	354,930	326,400
Estimated Gross STG Output (Multi-Shaft)	kW	133,560	134,140	137,900	142,410	141,630	128,380
Estimated Gross Power Train Output	kW	476,340	485,700	509,890	514,970	496,570	454,780
Estimated Power Train Auxiliary Loads							
Estimated Power Train Auxiliary Loads (Mitsubishi Power)	kW	2,660	2,660	2,660	2,660	2,660	2,660
Estimated Net Power Train Performance							
Estimated Net Power Train Output	kW	473,680	483,040	507,230	512,310	493,910	452,120
Estimated Net Power Train Heat Rate, HHV	Btu/kWh	7,067	6,997	6,853	6,821	6,838	6,993
Estimated Net Power Train Heat Rate, LHV	Btu/kWh	6,622	6,556	6,421	6,391	6,407	6,552
STACK EXHAUST CONDITIONS AND EMISSIONS SUMMARY (PER STACK)							
Stack Exhaust Flow (Mass)	kpph	6,216	6,279	6,516	6,725	6,602	6,187
Stack Exhaust Flow (Volume) - Actual	ft3/min	2,039,400	2,060,875	2,143,517	2,220,784	2,184,632	2,050,607
Stack Exhaust Flow (Volume) - DSCFM	ft3/min	1,246,042	1,258,491	1,305,295	1,343,730	1,314,799	1,224,720
Stack Exhaust Gas Temperature	°F	307	307	308	309	309	308
Stack Exhaust Gas Composition							
	mol%	11.33	11.34	11.37	11.50	11.52	11.38
CO2	mol%	5.55	5.55	5.50	5.34	5.25	5.23
H2O	mol%	9.43	9.45	9.57	9.99	10.49	11.32
N2	mol%	72.77	72.75	72.65	72.26	71.85	71.18
Ar	mol%	0.91	0.91	0.91	0.90	0.90	0.89
Stack Exhaust Gas Molecular Weight		28.52	28.52	28.50	28.44	28.37	28.28
STACK EXHAUST EMISSIONS (PER STACK)							
NOx	ppmvd@15% O2	5.0	5.0	5.0	5.0	5.0	5.0
NOx	lb/h	78.0	78.0	81.0	81.0	79.0	74.0
NOx	lb/MMBtu - HHV	0.024	0.024	0.024	0.024	0.024	0.024
CO	ppmvd@15% O2	2.0	2.0	2.0	2.0	2.0	2.0
CO	lb/h	19.0	19.0	19.7	19.7	19.3	18.0
CO	lb/MMBtu - HHV	0.017	0.017	0.017	0.017	0.017	0.017
VOC (includes Formaldehyde)	ppmvd@15% O2	2.0	2.0	2.0	2.0	2.0	2.0
VOC (includes Formaldehyde)	lb/h	11.0	11.0	11.3	11.3	11.0	10.3
VOC (includes Formaldehyde)	lb/MMBtu - HHV	0.010	0.010	0.010	0.010	0.010	0.010
Formaldehyde (CH2O)	ppbvd@15% O2	91.0	91.0	91.0	91.0	91.0	91.0
Formaldehyde (CH2O)	lb/h	1.0	1.0	1.0	1.0	1.0	1.0
Formaldehyde (CH2O)	lb/MMBtu - HHV	0.001	0.001	0.001	0.001	0.001	0.001
H2SO4	lb/h	12.0	12.0	12.0	12.0	12.0	11.0
H2SO4	lb/MMBtu - HHV	0.004	0.004	0.004	0.004	0.004	0.004
SO2 (before conversion to SO3)	lb/h	7.0	7.0	7.0	7.0	7.0	6.0
SO2 (before conversion to SO3)	lb/MMBtu - HHV	0.002	0.002	0.002	0.002	0.002	0.002
Particulates (PM10 Filterable)	lb/h	86.0	87.0	90.0	93.0	90.0	84.0
Particulates (PM10 Filterable)	lb/MMBtu - HHV	0.026	0.026	0.026	0.027	0.027	0.027
Particulates (PM10 Condensable, as (NH4)2SO4)	lb/h	86.0	87.0	90.0	93.0	90.0	84.0
Particulates (PM10 Condensable, as (NH4)2SO4)	lb/MMBtu - HHV	0.026	0.026	0.026	0.027	0.027	0.027
Ammonia Slip (NH3)	ppmvd@15% O2	5.0	5.0	5.0	5.0	5.0	5.0
Ammonia Slip (NH3)	lb/h	27.0	27.0	28.0	28.0	27.0	25.0
Ammonia Slip (NH3)	lb/MMBtu - HHV	0.008	0.008	0.008	0.008	0.008	0.008
CO2e (i.e. CO2 equivalent) (based on EPA Emission Factor)	lb/h	599,700	605,500	622,700	626,000	605,100	566,400
CO2e (i.e. CO2 equivalent) (based on EPA Emission Factor)	lb/MMBtu - HHV	179.2	179.2	179.2	179.2	179.2	179.2
Estimated CO2 (based on EPA Emission Factor), For Information Only	lb/h	597,800	603,500	620,600	624,000	603,100	564,600

Continued on next page

Appendix B-2b
Mitsubishi Performance Data for Fuel Oil-Firing
Canadys Station | Walterboro, South Carolina
March 2026

Thermal Performance Estimates

FOR INFORMATION ONLY

Dominion Energy

Canadys

20-0379

1

13-Jan-2026

W. Herrington

1x1 (MS) Multi-Shaft Combined-Cycle

Power Train

M501JAC

Air-Cooled Condenser

Fuel Oil

Fuel Oil Composition: 86.0% Carbon, 14.0% Hydrogen

Notes

1. For assumptions and clarifications, please refer to notes provided on separate page.

FO7	FO8	FO9	FO10	FO11	FO12	FO13	FO14	FO15	FO16	FO17	FO18	FO19	FO20	FO21
Base Load	Part Load	Part Load	Part Load	Part Load	Part Load	Part Load	Part Load	MECL	MECL	MECL	MECL	MECL	MECL	MECL
110.0	-10.0	0.0	29.0	59.0	80.0	98.0	110.0	-10.0	0.0	29.0	59.0	80.0	98.0	110.0
14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650
35.0	57.0	57.0	57.0	60.0	50.0	43.0	35.0	57.0	57.0	57.0	60.0	50.0	43.0	35.0
Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State
Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100%	70%	70%	70%	70%	70%	70%	70%	68%	60%	60%	60%	60%	60%	60%
0.81	0.45	0.49	0.52	0.52	0.52	0.49	0.46	0.44	0.39	0.47	0.52	0.52	0.44	0.38
140,624	122,806	124,638	126,168	125,604	121,512	115,251	110,169	120,597	113,194	116,702	116,682	113,245	106,717	101,347
0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2
18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0
151,669	132,453	134,428	136,077	135,469	131,055	124,304	118,822	130,071	122,086	125,870	125,850	122,141	115,101	109,307
2,995	2,616	2,655	2,687	2,675	2,588	2,455	2,346	2,569	2,411	2,486	2,485	2,412	2,273	2,159
2,806	2,451	2,487	2,518	2,507	2,425	2,300	2,199	2,407	2,259	2,329	2,329	2,260	2,130	2,023

Continued on next page

FO7	FO8	FO9	FO10	FO11	FO12	FO13	FO14	FO15	FO16	FO17	FO18	FO19	FO20	FO21
4.60	1.86	1.87	1.87	1.87	1.87	3.04	4.27	1.86	1.86	1.86	1.87	1.86	3.01	4.20
303,800	239,550	245,670	256,170	260,160	247,940	228,060	212,320	232,640	210,280	222,440	222,750	212,210	195,170	181,560
117,440	119,610	120,840	122,160	123,090	122,960	113,390	104,260	118,790	115,310	119,360	121,320	121,440	109,960	99,640
421,240	359,160	366,520	378,340	383,260	370,900	341,450	316,590	351,430	325,590	341,810	344,080	333,650	305,140	281,210
2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660
418,580	356,500	363,860	375,680	380,600	368,240	338,790	313,930	348,770	322,930	339,150	341,420	330,990	302,480	278,550
7,154	7,336	7,295	7,152	7,028	7,027	7,244	7,473	7,363	7,464	7,328	7,278	7,286	7,513	7,748
6,703	6,873	6,835	6,701	6,585	6,584	6,788	7,002	6,899	6,994	6,866	6,819	6,827	7,040	7,260
5,861	4,727	4,842	4,944	4,941	4,823	4,588	4,397	4,634	4,359	4,601	4,701	4,615	4,266	3,973
1,942,602	1,541,637	1,580,558	1,616,275	1,619,988	1,584,850	1,511,349	1,449,248	1,510,591	1,419,147	1,501,012	1,539,270	1,514,703	1,408,290	1,317,682
1,157,253	945,300	969,011	988,517	983,905	956,625	904,814	865,010	926,625	871,678	920,546	938,142	917,583	835,892	768,990
307	302	303	303	304	303	303	302	301	300	302	303	303	302	301
11.32	11.06	11.15	11.20	11.12	11.09	10.97	10.93	11.06	11.07	11.25	11.35	11.34	10.84	10.41
5.22	5.70	5.65	5.60	5.56	5.50	5.46	5.44	5.71	5.70	5.57	5.43	5.36	5.42	5.50
11.68	9.68	9.62	9.76	10.35	10.92	11.72	12.05	9.70	9.70	9.69	10.13	10.67	12.60	14.17
70.89	72.64	72.66	72.53	72.07	71.58	70.96	70.69	72.62	72.61	72.57	72.19	71.73	70.26	69.05
0.89	0.91	0.91	0.91	0.90	0.90	0.89	0.89	0.91	0.91	0.91	0.90	0.90	0.88	0.87
28.24	28.51	28.51	28.49	28.42	28.35	28.26	28.22	28.51	28.51	28.49	28.43	28.36	28.16	27.99
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
70.0	61.0	62.0	63.0	62.0	60.0	57.0	55.0	60.0	56.0	58.0	58.0	56.0	53.0	50.0
0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
17.0	15.0	15.0	15.3	15.3	14.7	14.0	13.3	14.7	13.7	14.0	14.0	13.7	13.0	12.3
0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
9.7	8.7	8.7	8.7	8.7	8.7	8.0	7.7	8.3	8.0	8.3	8.3	8.0	7.3	7.0
0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11.0	9.0	9.0	9.0	9.0	9.0	9.0	8.0	9.0	9.0	9.0	9.0	9.0	8.0	8.0
0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
80.0	66.0	68.0	69.0	68.0	67.0	63.0	60.0	65.0	61.0	64.0	65.0	64.0	58.0	54.0
0.027	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.026	0.025
80.0	66.0	68.0	69.0	68.0	67.0	63.0	60.0	65.0	61.0	64.0	65.0	64.0	58.0	54.0
0.027	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.026	0.025
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
24.0	21.0	21.0	22.0	21.0	21.0	20.0	19.0	21.0	19.0	20.0	20.0	19.0	18.0	17.0
0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
536,500	468,500	475,500	481,300	479,200	463,600	439,700	420,300	460,100	431,900	445,200	445,200	432,100	407,100	386,700
179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2
534,700	467,100	474,000	484,200	477,600	462,100	438,300	418,900	458,700	430,500	443,900	443,700	430,700	405,800	385,500

End of FO Performance Data

Appendix C
BACT Database Review Summaries

Appendix C-1a
BACT Analysis Database Search Results: Combustion Turbines, PM
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	Natural Gas	Good Combustion Practices and burning clean fuels (NG)	0.0063 lb/MMBtu	3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines)	Natural Gas	Good Combustion Practices and burning clean fuels (NG)	0.0063 lb/MMBtu	3-hour average	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Four Combined Cycle Gas-Fired Turbines	Natural Gas	Good combustion practices and burning clean fuel (natural gas)	0.007 lb/MMBtu	3-hours	BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	Two 744 MW Combined Cycle Units	Natural Gas	No control listed.	0.004 lb/MMBtu	3 hour avg	BACT-PSD	
RBLC	CA-1251	PALMDALE ENERGY PROJECT	CA	04/25/2018	Combustion Turbines (GEN1 and GEN2)	Natural Gas	Clean fuel and good combustion practices	0.0048 lb/MMBtu	test average	BACT-PSD	
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	No control listed.	9.73 lb/hr		BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/o Duct Firing	Natural Gas	Good Combustion	0.044 lb/MMBtu		BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/Duct Firing	Natural Gas	Good Combustion	0.005 lb/MMBtu		BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Combined-cycle electric generating unit	Natural gas	Use of clean fuels	2 GRAIN S/100 SCF GAS	for natural gas	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	2-on-1 combined cycle unit (GE 7HA)	Natural gas	Clean fuels	0		BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	1-on-1 combined cycle unit (GE 7HA)	Natural Gas	Clean fuels	0		BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	Natural Gas	Low sulfur fuel	1.4 GR. S/100 SCF NG		BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Combined Cycle Combustion Turbines	Natural Gas	Good combustion practices	0.0037 lb/MMBtu	3-hour block average	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Combined Cycle Combustion Turbines	Natural Gas	Good combustion practice	0.0069 lb/MMBtu	3-hour block average	BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Combined-Cycle Combustion Turbine	Natural Gas	Good combustion practices	0.0026 lb/MMBtu	3-hr block average	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Combined-Cycle Combustion Turbines	Natural Gas	Good combustion practices	0.0032 lb/MMBtu	with duct burner; rolling 3-operating hr	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Combined-Cycle Combustion Turbines	Natural Gas	Good combustion practices.	0.0041 lb/MMBtu	rolling 3-operating hour	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGB	Natural gas	No control listed.	0.0074 lb/MMBtu		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGA SU/SD	Natural gas	No control listed.	5.3 LB/EVENT		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGA	Natural Gas	No control listed.	0.0049 lb/MMBtu		BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Combustion Turbines (6A and 6B)	Natural Gas	Good Combustion Practices and combustping pipeline-quality natural gas	0.0042 lb/MMBtu	3-hour average excl. su/sd	BACT-PSD	
RBLC	KS-0029	THE EMPIRE DISTRICT ELECTRIC COMPANY	KS	07/14/2015	Combined cycle combustion turbine	Natural gas	dry low NOx burners heat recovery steam generator (HRSG)	30.2 lb/hr		BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Combined Cycle Unit 1A	Natural Gas	Good combustion practices and clean burning fuels (natural gas)	17.52 lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Combined Cycle Unit 1B	Natural Gas	Good combustion practices and clean burning fuels (natural gas)	17.52 lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	Natural Gas	Exclusive Combustion of Fuel Gas and Good Combustion Practices.	9.53 lb/hr	3 hour average	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Cogeneration Units	Natural Gas	Use of pipeline quality natural gas or fuel gas and good combustion practices.	12.46 lb/hr		BACT-PSD	
RBLC	*LA-0365	BIG CAJUN I POWER PLANT	LA	06/27/2019	Combustion Turbine #1 (EQT0002, CTG-1)	Natural Gas	Good Combustion Controls	19 lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0365	BIG CAJUN I POWER PLANT	LA	06/27/2019	Combustion Turbine #2 (EQT0003, CTG-2)	Natural Gas	Good Combustion Controls	19 lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	Natural Gas	Use of gaseous fuel (pipeline-quality natural gas) and good combustion practices.	0.008 LB/MM BTU	3 one-hour test average	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Combined Cycle Gas Turbine Startup and Shutdown	Natural Gas	Good combustion practices.	18 lb/hr		BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES	NATURAL GAS	USE OF PIPELINE-QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRACTICE	8.9 lb/hr	3-hour block average (w/out duct firing)	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES	NATURAL GAS	USE OF PIPELINE QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRACTICES	17.9 lb/hr	w/out duct firing, avg. of 3 stack tests	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	9.9 lb/hr	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.8 lb/hr	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	0.007 lb/MMBtu	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	0.014 lb/MMBtu	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	0.014 lb/MMBtu	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0427	FILER CITY STATION	MI	11/17/2017	EUCCT (Combined cycle CTG with unfired HRSG)	Natural gas	Good combustion practices and the use of pipeline quality natural gas, combustion inlet air filter.	0.0025 lb/MMBtu		BACT-PSD	
RBLC	MI-0427	FILER CITY STATION	MI	11/17/2017	EUCCT (Combined cycle CTG with unfired HRSG)	Natural gas	Good combustion practices and the use of pipeline quality natural gas, combustion inlet air filter.	0.0066 lb/MMBtu		BACT-PSD	
RBLC	MI-0432	NEW COVERT GENERATING FACILITY	MI	07/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	Natural gas	Use clean fuel (natural gas) and good combustion practices.	10.7 lb/hr	hourly; each ct/hrsg train	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	5.8 lb/hr	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good combustion practices, inlet air conditioning and the use of pipeline quality natural gas.	19.1 lb/hr	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (North Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	5.8 lb/hr	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (North Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.1 lb/hr	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	16 lb/hr	hourly; each unit	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	16 lb/hr	hourly; each unit	BACT-PSD	
RBLC	MI-0439	JACKSON GENERATING STATION	MI	04/02/2019	FGLMDB1-6 (6 combined cycle natural gas fired CTG each equipped with a HRSG)	natural gas	Combustion inlet air filters, good combustion practices and only combust natural gas.	4.9 lb/hr	24-hr avg, each hr unit operates, each	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	Natural gas	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02 lb/hr	hourly	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	Natural gas	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02 lb/hr	hourly	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGCTGHRSG	Natural gas	Low sulfur fuel and good combustion practices.	0.0034 lb/MMBtu	hourly; each unit	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGCTGHRSG	Natural gas	Low sulfur fuel and good combustion practices.	0.006 lb/MMBtu	hourly; each unit	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGCTGHRSG	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	9.9 lb/hr	hourly; each ctghrsg	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGCTGHRSG	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.8 lb/hr	hourly; each ctghrsg	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUCTGHRSG1	Natural gas	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02 lb/hr	hourly; applies during all operat. modes	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUCTGHRSG2	Natural gas	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02 lb/hr	hourly; applies during all operat. modes	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	5.7 lb/hr	hourly	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	Natural gas	Good combustion practices, inlet air conditioning and the use of pipeline quality natural gas.	19.1 lb/hr	hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good Combustion Practices, inlet air conditioning, and the use of pipeline quality natural gas	5.7 lb/hr	hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good Combustion Practices, inlet air conditioning, and the use of pipeline quality natural gas	19.1 lb/hr	hourly	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUCTGHRSG1	Natural gas	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02 lb/hr	hourly; applies during all oper. modes	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUCTGHRSG2	Natural gas	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02 lb/hr	hourly; applies during all modes	BACT-PSD	
RBLC	MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MI	02/01/2023	EUCTGHRSG1	Natural gas	Use of pipeline quality natural gas and good combustion practices.	34.4 lb/hr	hourly	BACT-PSD	
RBLC	MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MI	02/01/2023	EUCTGHRSG1	Natural gas	Use of pipeline quality natural gas and good combustion practices.	34.4 lb/hr	hourly	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	natural gas	USE OF NATURAL GAS A CLEAN BURNING FUEL	10.4 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	natural gas	COMPLIANCE BY STACK TESTING	18.3 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	Natural Gas	USE OF NATURAL GAS A CLEAN BURNING FUEL	4.4 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	Natural Gas	USE OF NATURAL GAS A CLEAN BURNING FUEL	11.7 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	Natural Gas	USE OF CLEAN NATURAL GAS AND ULSD CLEAN BURNING FUELS	9.3 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	Natural Gas	USE OF NATURAL GAS AND ULSD; BOTH CLEAN BURNING FUELS	11.58 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	OH-0365	ROLLING HILLS GENERATING, LLC	OH	05/20/2015	Combustion Turbines, Scenario 1 (4, identical) (P001, P002, P004, P005)	Natural gas	good combustion practices along with clean fuels	0.0068 lb/MMBtu	hhv, 3 hr avg. see notes.	BACT-PSD	
RBLC	OH-0365	ROLLING HILLS GENERATING, LLC	OH	05/20/2015	Combustion Turbines, Scenario 2 (4, identical) (P001, P002, P004, P005)	Natural gas	good combustion practices along with clean fuels	0.0085 lb/MMBtu	hhv, 3 hr avg. see notes.	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Low sulfur fuel	14.9 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Good combustion controls	25 lb/hr	nat gas, with duct burner. see notes.	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Good combustion controls and low sulfur fuel	15.2 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	good combustion practices and pipeline quality natural gas	15.4 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	Natural gas	pipeline quality natural gas	0.0073 lb/MMBtu	see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	General Electric Combustion Turbine (P004)	Natural gas	natural gas or a natural gas and ethane mixture only	0.0036 lb/MMBtu		BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	General Electric Combustion Turbine (P004)	Natural gas	natural gas or a natural gas and ethane mixture only	0.0036 lb/MMBtu		BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Mitsubishi Combustion Turbine (P005)	Natural gas	natural gas or a natural gas and ethane mixture only	0.004 lb/MMBtu	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Mitsubishi Combustion Turbine (P005)	Natural gas	natural gas or a natural gas and ethane mixture only	0.004 lb/MMBtu	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Siemens Combustion Turbine (P006)	Natural gas	natural gas or a natural gas and ethane mixture only	0.0057 lb/MMBtu	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Siemens Combustion Turbine (P006)	Natural gas	natural gas or a natural gas and ethane mixture only	0.0057 lb/MMBtu	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	Natural gas	Good combustion practices and pipeline quality natural gas	0.0052 lb/MMBtu	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	Natural gas	Good combustion practices and pipeline quality natural gas	0.0052 lb/MMBtu	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	Natural gas	Good combustion practices and pipeline quality natural gas	0.005 lb/MMBtu	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	Natural gas	Good combustion practices and pipeline quality natural gas	0.005 lb/MMBtu	with duct burner. see notes.	BACT-PSD	
RBLC	PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	PA	02/12/2016	Large combustion turbine	Natural Gas	Good combustion practices with the use of low ash/sulfur fuels	0.0039 lb/MMBtu		BACT-PSD	
RBLC	PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	PA	02/12/2016	Large combustion turbine	Natural Gas	Good combustion practices with the use of low ash/sulfur fuels	0.0039 lb/MMBtu		BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two combined cycle turbines with out duct burner	Natural Gas	Good combustion practices and low sulfur fuels	0.0068 lb/MMBtu		BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two combined cycle turbines with out duct burner	Natural Gas	Good combustion practices and low sulfur fuels	0.0068 lb/MMBtu		BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two Combine Cycle Combustion Turbine with Duct Burner	Natural Gas	Good combustion practices and low sulfur fuels	0.0066 lb/MMBtu		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Combustion turbine with duct burner	Natural gas	Exclusive natural gas, high-efficiency inlet air filters and DLN	0.003 lb/MMBtu		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Combustion turbine with duct burner	Natural gas	Exclusive natural gas, high-efficiency inlet air filters and DLN	0.0059 lb/MMBtu		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG with duct burner NG only	Natural Gas	Low sulfur fuel, good combustion practices	0.005 lb/MMBtu		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG without duct burner NG only	Natural gas	Low sulfur fuels and good combustion practices	0.0068 lb/MMBtu		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Combustion Turbine With Duct Burner	Natural Gas	No control listed.	0.0063 lb/MMBtu		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	*PA-0315	HILLTOP ENERGY CENTER, LLC	PA	04/12/2017	Combustion Turbine without Duct Burner	Natural Gas	No control listed.	0.0072 LB	mmbtu	BACT-PSD	
RBLC	*PA-0319	RENAISSANCE ENERGY CENTER	PA	08/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	Natural Gas	No control listed.	0.0043 lb/MMBtu		BACT-PSD	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	Natural Gas	SCR, Catalytic Oxidizer	0.005 lb/MMBtu		LAER	
RBLC	TN-0162	JOHNSONVILLE COGENERATION	TN	04/19/2016	Natural Gas-Fired Combustion Turbine with HRSG	Natural Gas	Good combustion design and practices	0.005 lb/MMBtu		BACT-PSD	
RBLC	*TN-0164	TVA - JOHNSONVILLE COGENERATION	TN	02/01/2018	Dual-fuel CT and HRSG with duct burner	Natural Gas	Good combustion design & practice	0.005 lb/MMBtu	when burning natural gas	BACT-PSD	
RBLC	TX-0730	COLORADO BEND ENERGY CENTER	TX	04/01/2015	Combined-cycle gas turbine electric generating facility	natural gas	efficient combustion, natural gas fuel	43 lb/hr		BACT-PSD	
RBLC	TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TX	06/18/2015	Combined Cycle Turbines (>25 MW) & natural gas	natural gas	No control listed.	35.47 lb/hr		BACT-PSD	
RBLC	TX-0767	LON C. HILL POWER STATION	TX	10/02/2015	Combined Cycle Turbines (>25 MW)	natural gas	Good combustion practices and use of pipeline quality natural gas	16 lb/hr		BACT-PSD	
RBLC	TX-0773	FGE EAGLE PINES PROJECT	TX	11/04/2015	Combined Cycle Turbines (>25 MW)	natural gas	No control listed.	21.4 lb/hr		BACT-PSD	
RBLC	TX-0788	NECHES STATION	TX	03/24/2016	Combined Cycle & Cogeneration	natural gas	GOOD COMBUSTION PRACTICES, LOW SULFUR FUEL	19.35 lb/hr		BACT-PSD	
RBLC	TX-0789	DECORDOVA STEAM ELECTRIC STATION	TX	03/08/2016	Combined Cycle & Cogeneration	natural gas	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	35.47 lb/hr		BACT-PSD	
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Refrigeration Compression Turbines	natural gas	No control listed.	11.07 lb/hr		BACT-PSD	
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Simple Cycle Electrical Generation Gas Turbines 15.210	natural gas	Equipment specifications & work practices - Good combustion practices and use of low carbon, low sulfur fuel	2.32 lb/hr		BACT-PSD	
RBLC	TX-0817	CHOCOLATE BAYOU STEAM GENERATING (CBSG) STATION	TX	02/17/2017	Combined Cycle Cogeneration	NATURAL GAS	No control listed.	6.98 lb/hr		BACT-PSD	
RBLC	TX-0819	GAINES COUNTY POWER PLANT	TX	04/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	NATURAL GAS	Pipeline quality natural gas; good combustion practices	0		BACT-PSD	
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	Combined Cycle Turbine	NATURAL GAS	PIPELINE NATURAL GAS, GOOD COMBUSTION	125.7 TON/YR		BACT-PSD	
RBLC	TX-0878	LNG EXPORT TERMINAL	TX	09/15/2022	Refrigeration Compression Turbines	NATURAL GAS	Dry low NOx burners and good combustion practices.	11 lb/hr		BACT-PSD	
RBLC	TX-0878	LNG EXPORT TERMINAL	TX	09/15/2022	Refrigeration Compression Turbines	NATURAL GAS	Good combustion practices and use of pipeline quality natural gas	0		BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	Simple Cycle Turbine	natural gas	Use of natural gas and good combustion practices	0		BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	Simple Cycle Turbine	natural gas	Use of natural gas and good combustion practices	0		LAER	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	Simple Cycle Turbine	natural gas	Use of natural gas and good combustion practices	0		BACT-PSD	
RBLC	TX-0915	UNIT 5	TX	03/17/2021	COMBINED CYCLE TURBINE	NATURAL GAS	Low sulfur natural gas fuel	0		BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	Combined Cycle Turbines	NATURAL GAS	good combustion practices	0.005 lb/MMBtu		BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	natural gas	Pipeline Quality Natural Gas	0.0039 lb/MMBtu	avg of 3 test runs	N/A	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	natural gas	Low sulfur/carbon fuel and good combustion pratices	0.0039 lb/MMBtu	avg of 3 test runs	N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	natural gas	good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12-month rolling average.	0.0069 lb/MMBtu WITHOUT DUC	av of 3 test runs	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	Natural Gas	good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12 mo rolling av.	0.0065 lb/MMBtu	av of 3 test runs/without duct burning	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	natural gas	Controlled by good combustion practices (e.g. controlled fuel/air mixing, adequate temperature, and gas residence time) and the use of pipeline-quality natural gas with a maximum sulfur content of 0.4 grains per 100 scf, on a 12-month rolling average.	0.0052 lb/MMBtu	avg. of 3 test runs	BACT-PSD	
RBLC	*VA-0335	PANDA STONEWALL LLC	VA	12/18/2020	Combustion Turbines, Two (2) and HRSG Duct Burners	Natural Gas	Good combustion practices and use of low-sulfur fuels	0.0037 lb/MMBtu	at full load w & w/o db	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	Natural Gas	Only combust pipeline quality natural gas and diesel fuel oil and use good combustion control according to the manufacturer's recommendations.	36.3 lb/hr	natural gas, duct firing	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	Natural Gas	No control listed.	43.6 LB/START-UP		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	Natural Gas	No control listed.	78.9 LB/START-UP		BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Combustion Turbine; S01/P01/C01a (SCR)/C01b (oxidation catalyst)	natural gas-fired	Firing fuels with low ash content (e.g. natural gas) & good combustion control	36.3 lb/hr	firing natural gas and with duct firing	BACT-PSD	
RBLC	*WV-0029	HARRISON COUNTY POWER PLANT	WV	03/27/2018	GE 7HA.02 Turbine	Natural Gas	Air Filter, Use of Natural Gas, Good Combustion Practices	18.2 lb/hr		BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY POWER PLANT	WV	09/18/2018	GE 7HA.01 Turbine	Natural Gas/Ethane	Air Filter, Use of Natural Gas, Good Combustion Practices	16.9 lb/hr		BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	Clean Fuels and Good Combustion Practice	0.006 lb/MMBtu	avg of 3 4-hr test runs	BACT-PSD	
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	ULSD	No control listed.	42.6 lb/hr		BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	ULSD w/o Duct Firing	ULSD	Good Combustion	0.0168 lb/MMBtu		BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Combined Cycle Combustion Turbine without Duct Burner Firing ULSD	ULSD	Use of Natural Gas a clean burning fuel	60.6 lb/hr	av of three one hour stack tests	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Combined Cycle Combustion Turbine without Duct Burner Firing ULSD	ULSD	Use of Natural gas a clean burning fuel	27.9 lb/hr	av of three one hour	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	ULSD	use of ULSD a low sulfur and clean fuel	72 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	ULSD	USE OF ULSD a low sulfur and clean fuel	34.3 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	ULSD	Use of clean burning fuel - ULSD	49.17 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	ULSD	Clean burning fuel - ULSD	46 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two combined cycle combustion turbines ULSD fired with duct burner NG fired	ULSD and NG	Good combustion practices and low sulfur fuels	0.0152 lb/MMBtu		BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two combined cycle combustion turbines ULSD fired without duct burner	ULSD	Good combustion practices and low sulfur fuels	0.0272 lb/MMBtu		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG without duct burner ULSD	ULSD	Water/steam injection, ULSD fuel (CCCT only - duct burner is not fired with ULSD), good combustion practices	0.0415 lb/MMBtu		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
SCAQMD	581392	Walnut Creek Energy, LLC	CA	1-Feb-19	Simple Cycle natural gas fired turbine with Intercooler and water injection. Peaker Unit. 891.7 MMBTU/hr Max heat input; 100.1 MW Net Power Output	Natural Gas	OxyCat and SCR, Ammonia Injection Grid with aqueous ammonia stored in a 16,000 gallon tank	No PM limits	BACT/LAER	
SCAQMD	579955	Pasadena City, DWP	CA	8-Mar-18	Combined Cycle with SCR, Oxidation catalyst, water injection and Steam Turbine (ST-5), Shinn Nippon, model C8-R11-RX	Natural Gas	Haldor Topsoe (SCR) & Emerachem (Oxidation Catalyst); aqueous ammonia injection grid	No PM limits	BACT/LAER	
BAAQMD	89.1.5	Bay Area	CA	7/18/2003	Combined Cycle (> = 2.0 MW and < 40 MW)	Natural Gas	PM10: Selection of Natural Gas Fuel	No emission limit listed.	BACT	
BAAQMD	89.1.6	Bay Area	CA	7/18/2003	Combined Cycle (> 40 Megawatts)	Natural Gas	PM10: Natural Gas Fuel (sulfur content not to exceed 1.0 grain/100 scf)	1 GR S/100 SCF FUEL	BACT	
CARB/SCAQMD	81391	Virginia Electric and Power Company	VA	1-Feb-19	Combined Cycle with Duct Burner HRSG, SCR, Oxidation catalyst and common Steam Turbine, Nominal 1,280MW electrical power generating facility consisting of three gas turbine generators each 299.6MW serving common steam turbine with 539MW generator.		SCR with aqueous ammonia injection grid for NOx control and Oxidation Catalyst for CO and VOC control.	No PM limits	BACT/LAER	
CARB/SM AQMD	25800	SMUD FINANCING AUTHORITY (COSUMNES POWER PLANT)	CA	10/30/2018	Combined Cycle Turbine, 2200 mmbTU/hr		SCR and Oxidation Catalyst; PM and Sox: Natural Gas or Equiv. that meets 0.7 gr S/100 scf	0.7 GR S/100 SCF FUEL		
CARB/SCAQMD	595485	LA City, Sanitation Bureau (HTP)	CA	1-Feb-19	Combined Cycle (No. 2) with SCR, Oxidation catalyst and Steam Turbine, equipped with a digester gas clean-up system; Generator serving turbine is 11.35MW with two (2) common shared steam turbine generators 7.8MW and 1MW. Three Duct Burners each 14MMBtu/hr.	Digester Gas	SCR catalyst with three modules of homogeneous honeycomb-type mixed metal catalyst each 11'-8"L x 6'-10"W x 3'-11"H / Oxidation Catalyst with 30 metal foil monoliths of platinum group metals, total layer 12'-3"L x 0'-4"W x 13'-4"H with total weight of 3060 lbs. Aqueous ammonia injection grid.	No PM limits	BACT/LAER	
CARB/SCAQMD	492565	Signal Hill Petroleum, Inc.	CA	1-Feb-19	Simple Cycle with SCR and Oxidation catalyst, 76.20 MMBtu/hr	Produced gas mixed with natural gas	High temperature zeolite SCR with ammonia injection; SCR: 400 cu.ft., 16'W x 12'H x 34'L and OxiCat: 28 cu.ft. of catalyst volume.	No PM limits	BACT/LAER	
CARB/SCAQMD	589228	Sunshine Gas Producers, LLC	CA	1-Feb-19	Generator serving gas turbine is 4.9MW, Simple Cycle Turbine with recuperation, fueled on treated 100% LFG from Sunshine Canyon Landfill, Sunshine Gas Producers utilizes this LFG fired turbine to generate electricity to sell back to electric company. The unit does not recover exhaust waste heat. This is one of five identical units at this location. There are no add-on controls.	LFG	None	No PM limits	BACT/LAER	
CARB/SCAQMD	601928	City of Riverside Public Utilities Dept	CA	5-Feb-21	Simple Cycle CT with intercooler and water injection, power output is 49.8 MW	Natural Gas	SCR and Oxidation Catalyst, ammonia injection grid with aqueous ammonia	No PM limits	BACT/LAER	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas	Low sulfur content fuels	0.0045 lb/MMBtu	BACT	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Dual-fuel combined-cycle electric generating units with HRSG and STG.	ULSD	Low sulfur content fuels	0.0135 lb/MMBtu	BACT	
Permit Application	N/A	Western Farmers Electric Cooperative	OK	12/2/2024	Simple Cycle CTs (only CTs and cooling tower)	Natural gas	Natural gas and combustion controls	4.8 lb/hr 3-hr average	BACT	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Good combustion control and pipeline quality natural gas	0.0030 lb/MMBtu 3-hr average	BACT	This emission limit is without duct burning. Limit with duct burning is 0.0039 lb/MMBtu, 3-hr average
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	ULSD or ULSK	Good combustion control and the use of ULSD or ULSK	0.11 lb/MMBtu 3-hr average	BACT	Same emission limit, with or without duct burning
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Good combustion control and pipeline quality natural gas	0.0030 lb/MMBtu 3-hr average	BACT	This emission limit is without duct burning. Limit with duct burning is 0.0039 lb/MMBtu, 3-hr average

End of table

Appendix C-1b
BACT Analysis Database Search Results: Combustion Turbines, GHG
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	Natural Gas	Good combustion practices and clean burning fuel (NG)	117.1 lb/MMBtu	3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	Natural Gas	Good combustion practices and clean burning fuel (NG)	117.1 lb/MMBtu	3-hour average	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Four Combined Cycle Gas-Fired Turbines	Natural Gas	Good combustion practices and burning clean fuels (natural gas)	117.1 lb/MMBtu	3-hours	BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	Two 744 MW Combined Cycle Units	Natural Gas	Efficient Design	1000 LB/MWH		BACT-PSD	
RBLC	CT-0158	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	No control listed.	809 LB/MWH		BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/o Duct Firing	Natural Gas	Use of low carbon fuel	7273 BTU/KW-HR	12-month rolling (net plant, gas only)	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Combined-cycle electric generating unit	Natural gas	Use of low-emitting fuels and technologies	850 LB/MWH	for gas operation, 12-mo rolling	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	2-on-1 combined cycle unit (GE 7HA)	Natural gas	Low-emitting fuels	850 LB/MWH	for gas operation, 12-mo rolling	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	1-on-1 combined cycle unit (GE 7HA)	Natural Gas	Low-emitting fuel	875 LB/MWH	12-mo rolling (primary bact)	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	Natural Gas	Low-emitting fuel	875 LB/MWH	12-mo rolling (primary bact)	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Combined Cycle Combustion Turbines	Natural Gas	Equipment design and proper operation	No limit listed.		BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Natural Gas Piping and Components		Leak Detection and Repair (LDAR) program; leakless components	No limit listed.		BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Combined-Cycle Combustion Turbine	Natural Gas	Equipment design and proper operation	4733910 TONS/YEAR	12-month rolling average	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Combined-Cycle Combustion Turbines	Natural Gas	Inherently lower-polluting design, good combustion practices and operational energy efficiency	850 LB/MW-HR (GROSS)	12 consecutive operating months	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGB	Natural Gas	No control listed.	826 LB/MW-HR (GROSS)	corrected to iso conditions	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGA	Natural Gas	No control listed.	726 LB/MW-HR (GROSS)	corrected to iso conditions	BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Integrated Gasification Combined Cycle Combustion Turbine	Natural Gas	Good Combustion Practices	110 lb/MMBtu		BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Combustion Turbines (6A and 6B)	Natural Gas	good combustion practices and efficient turbine design	850 LB/MW-HR	per twelve (12) consecutive month period	BACT-PSD	
RBLC	KS-0029	THE EMPIRE DISTRICT ELECTRIC COMPANY	KS	07/14/2015	Combined cycle combustion turbine	Natural gas	No control listed.	1022755.9 TONS PER YEAR	12-month rolling average	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Combined Cycle Unit 1A	Natural Gas	Thermally efficient combustion turbines and good combustion practices	No limit listed.		BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Combined Cycle Unit 1B	Natural Gas	Thermally efficient combustion turbines and good combustion practices	No limit listed.		BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	Natural Gas	Combust low carbon fuel gas and good combustion practices	2602275 T/YR	annual total	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Cogeneration Units	Natural Gas	Use of natural gas as fuel, energy-efficient design options, and operational/maintenance practices.	1096666 TONS/YR		BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	Natural Gas	Use of gaseous fuel (pipeline-quality natural gas), thermally efficient turbines, and good combustion practices.	875 LB/MW-H	annual average	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Combined Cycle Gas Turbine Startup and Shutdown	Natural Gas	Good combustion practices.	2528349 T/YR		BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES	NATURAL GAS	No control listed.	865 LB/MW-H	12-month rolling average	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	Natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	2097001 T/YR	12-month rolling time period	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	Natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	312321 T/YR	12-mo. rolling time period; each eu.	BACT-PSD	
RBLC	MI-0427	FILER CITY STATION	MI	11/17/2017	EUCCT (Combined cycle CTG with unfired HRSG)	Natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	992286 T/YR	12-mo.roll.time period	BACT-PSD	
RBLC	MI-0432	NEW COVERT GENERATING FACILITY	MI	07/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	Natural gas	Several energy efficiency measures and the use of natural gas.	1425081 T/YR	each ct/hrsg train; 12-mo. roll time per	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	1978297 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	1978297 T/YR	12-mo roll time period	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	Natural gas	Energy efficiency measures	2042773 T/YR	12-mo rolling time period; each unit	BACT-PSD	
RBLC	MI-0439	JACKSON GENERATING STATION	MI	04/02/2019	FGLMDB1-6 (6 combined cycle natural gas fired CTG each equipped with a HRSG)	natural gas	Use of low carbon fuel (natural gas), good combustion practices, and energy efficiency measures.	1000257 T/YR	12-month rolling time period	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	Natural gas	low carbon fuel (pipeline quality natural gas), good combustion practices and energy efficiency measures.	430349 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	Natural gas	low carbon fuel (pipeline quality natural gas), good combustion practices and energy efficiency measures.	1000 LB/MW-H	gross energy output; 12- operating mo avg	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	Natural gas	Low carbon fuel (pipeline quality natural gas), good combustion practices and energy efficiency measures.	430349 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	Natural gas	Low carbon fuel (pipeline quality natural gas), good combustion practices and energy efficiency measures.	1000 LB/MW-H	12-operating mo. avg; see notes	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGCTGHRSG	Natural gas	Energy efficiency measures	2739722 T/YR	12-month rolling time period; each unit	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGCTGHRSG	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	1911481 T/YR	12-mo rolling time period; each ctghrsg	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUCTGHRSG1	Natural gas	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	430349 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUCTGHRSG2	Natural gas	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	430349 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	Natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas)	2001019 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Energy Efficiency Measures and the use of a low carbon fuel (pipeline quality natural gas)	2001019 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUCTGHRSG1	Natural gas	low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	430349 T/YR	12-mo rolling time period; dur. all mode	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUCTGHRSG2	Natural gas	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	430349 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUCTGHRSG2	Natural gas	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	1000 LB/MWH	12-operating mo. roll.avg dur. all modes	BACT-PSD	
RBLC	MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MI	02/01/2023	EUCTGHRSG1	Natural gas	Low carbon fuel, good combustion practices, energy efficiency measures.	2375313 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	natural gas	USE OS NATURAL GAS A CLEAN BURNING FUEL	888 LB/MW-H	based on consecutive 12 month rolling	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	Natural Gas	USE OF NATURAL GAS A CLEAN BURNING FUEL	888 LB/MW-H	based on consecutive 12 month rolling	BACT-PSD	
RBLC	OH-0365	ROLLING HILLS GENERATING, LLC	OH	05/20/2015	Combustion Turbines, Scenario 1 (4, identical) (P001, P002, P004, P005)	Natural gas	high efficiency	7471 BTU/KW-H	hhv net per each cct block. see notes.	BACT-PSD	
RBLC	OH-0365	ROLLING HILLS GENERATING, LLC	OH	05/20/2015	Combustion Turbines, Scenario 2 (4, identical) (P001, P002, P004, P005)	Natural gas	high efficiency	7471 BTU/KW-H	hhv net per each cct block. see notes.	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	High efficient combustion technology	833 LB/MW-H	without duct burners. see notes.	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	High efficient combustion technology	481301 lb/hr	nat gas, with duct burner. see notes.	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	High efficient combustion technology	833 LB/MW-H	see notes.	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	high efficiency combustion design	401921 lb/hr	see notes.	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	Natural gas	high efficiency combustion practices as recommended by the manufacturer	846 LB/MW-H	without duct burner. see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	General Electric Combustion Turbine (P004)	Natural gas	high efficiency combustion practices as recommended by the manufacturer	775 LB/MW-H	see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Mitsubishi Combustion Turbine (P005)	Natural gas	high efficiency combustion practices as recommended by the manufacturer	1000 LB/MW-H	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Siemens Combustion Turbine (P006)	Natural gas	high efficiency combustion practices as recommended by the manufacturer	1000 LB/MW-H	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	Natural gas	High efficient combustion technology	1000 LB/MW-H	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	Natural gas	High efficient combustion technology	1000 LB/MW-H	with duct burner. see notes.	BACT-PSD	
RBLC	PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	PA	02/12/2016	Large combustion turbine	Natural Gas	Good combustion practices	1881905 TPY		BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two Combine Cycle Combustion Turbine with Duct Burner	Natural Gas	Good combustion practices and oxidation catalyst	883 LB/MW-HR	expressed as co2e (net)	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Combustion turbine with duct burner	Natural gas	No control listed.	1629115 TONS	year	BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG with duct burner NG only	Natural Gas	low sulfur fuel and good combustion practices	3352086 TONS	12-month rolling basis	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Combustion Turbine With Duct Burner	Natural Gas	No control listed.	1000 LB CO2/MWH	gross on a 12-month rolling basis	BACT-PSD	
RBLC	*PA-0315	HILLTOP ENERGY CENTER, LLC	PA	04/12/2017	Combustion Turbine without Duct Burner	Natural Gas	No control listed.	879 LB	mwh (gross)	OTHER CASE-BY-CASE	
RBLC	TN-0162	JOHNSONVILLE COGENERATION	TN	04/19/2016	Natural Gas-Fired Combustion Turbine with HRSG	Natural Gas	Good combustion design and practices	1800 LB/MWH	12-month moving average	BACT-PSD	
RBLC	*TN-0164	TVA - JOHNSONVILLE COGENERATION	TN	02/01/2018	Dual-fuel CT and HRSG with duct burner	Natural Gas	Good combustion design & practices	1800 LB/MWH	12-month moving average	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	TX-0679	CORPUS CHRISTI LIQUEFACTION PLANT	TX	02/27/2015	Refrigeration Compressor Turbine	natural gas	install efficient turbines, follow the turbine manufacturer's emission-related written instructions for maintenance activities including prescribed maintenance intervals to assure good combustion and efficient operation. Compressors shall be inspected and maintained according to a written maintenance plan to maintain efficiency.	146754 TPY	12-month rolling basis	BACT-PSD	
RBLC	TX-0730	COLORADO BEND ENERGY CENTER	TX	04/01/2015	Combined-cycle gas turbine electric generating facility	natural gas	efficient processes, practices, and designs	879 LB/MWH		BACT-PSD	
RBLC	TX-0730	COLORADO BEND ENERGY CENTER	TX	04/01/2015	Combined-cycle gas turbine electric generating facility	natural gas	efficient processes, practices, and designs	37 TPY		BACT-PSD	
RBLC	TX-0730	COLORADO BEND ENERGY CENTER	TX	04/01/2015	Combined-cycle gas turbine electric generating facility	natural gas	efficient processes, practices, and designs	No limit listed.		BACT-PSD	
RBLC	TX-0761	SR BERTRON ELECTRIC GENERATING STATION	TX	09/15/2015	Combined cycle and cogeneration turbines greater than 25 MW firing natural gas	natural gas	No control listed.	825 LB /MW H		BACT-PSD	
RBLC	TX-0762	CEDAR BAYOU ELECTRIC GENERATING STATION	TX	09/15/2015	Combined cycle and cogeneration turbines greater than 25 MW	natural gas	No control listed.	825 LB CO2/MWH		BACT-PSD	
RBLC	TX-0766	GOLDEN PASS LNG EXPORT TERMINAL	TX	09/11/2015	Refrigeration Compression Turbines	natural gas	Equipment specifications & work practices - Good combustion practices and use of low carbon fuel	614533 TPY		BACT-PSD	
RBLC	TX-0773	FGE EAGLE PINES PROJECT	TX	11/04/2015	Combined Cycle Turbines (>25 MW)	natural gas	Low carbon fuel, good combustion, efficient combined cycle design	886 LB/MW H	without duct firing	BACT-PSD	
RBLC	TX-0787	TRINIDAD GENERATING FACILITY	TX	03/01/2016	Combined Cycle & Cogeneration	natural gas	Good Combustion Practices	937 LB/MW HR		BACT-PSD	
RBLC	TX-0788	NECHES STATION	TX	03/24/2016	Combined Cycle & Cogeneration	natural gas	GOOD COMBUSTION PRACTICES	924 LB/MWH		BACT-PSD	
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Refrigeration Compression Turbines	natural gas	Equipment specifications & work practices - Good combustion practices and use of low carbon fuel	504517 T/YR		BACT-PSD	
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Simple Cycle Electrical Generation Gas Turbines 15.210	natural gas	Equipment specifications & work practices - Good combustion practices and use of low carbon, low sulfur fuel	156912 T/YR		BACT-PSD	
RBLC	TX-0791	ROCKWOOD ENERGY CENTER	TX	03/18/2016	Combined Cycle & Cogeneration (> 25 megawatts (MW))	natural gas	Good combustion practices	901 LB/MWH		BACT-PSD	
RBLC	TX-0791	ROCKWOOD ENERGY CENTER	TX	03/18/2016	Combined Cycle & Cogeneration (> 25 MW)	natural gas	Good combustion practices	865 LB/MWH		BACT-PSD	
RBLC	TX-0791	ROCKWOOD ENERGY CENTER	TX	03/18/2016	Combined Cycle & Cogeneration (> 25 MW)	natural gas	Good combustion practices	944 LB/MWH		BACT-PSD	
RBLC	TX-0791	ROCKWOOD ENERGY CENTER	TX	03/18/2016	Combined Cycle & Cogeneration (> 25 MW)	natural gas	good combustion practices	929 LB/MWH		BACT-PSD	
RBLC	TX-0791	ROCKWOOD ENERGY CENTER	TX	03/18/2016	Combined Cycle & Cogeneration (> 25 MW)	natural gas	good combustion practices	929 LB/MWH		BACT-PSD	
RBLC	TX-0791	ROCKWOOD ENERGY CENTER	TX	03/18/2016	Combined Cycle & Cogeneration (> 25 MW)	natural gas	good combustion practices	965 LB/MWH		BACT-PSD	
RBLC	TX-0805	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TX	07/19/2016	Combined Cycle & Cogeneration	natural gas	Good Combustion Practices	917 LB/MW H		BACT-PSD	
RBLC	TX-0810	DECORDOVA STEAM ELECTRIC STATION (DECORDOVA STATION)	TX	10/04/2016	Combined Cycle and Cogeneration (>25 MW)	natural gas	good combustion practices and firing low carbon fuel.	966 LB/MW H		BACT-PSD	
RBLC	TX-0817	CHOCOLATE BAYOU STEAM GENERATING (CBSG) STATION	TX	02/17/2017	Combined Cycle Cogeneration	NATURAL GAS	No control listed.	1000 LB/MW H		BACT-PSD	
RBLC	TX-0819	GAINES COUNTY POWER PLANT	TX	04/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	NATURAL GAS	Pipeline quality natural gas	960 LB / MW H		BACT-PSD	
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	Combined Cycle Turbine	NATURAL GAS	PIPELINE QUALITY NATURAL GAS, GOOD COMBUSTION PRACTICES	884 LB/MWH		BACT-PSD	
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	COMBINED CYCLE TURBINE MSS REDUCED LOAD	NATURAL GAS	minimizing duration of startup / shutdown events, engaging the pollution control equipment as soon as practicable (based on vendor recommendations and guarantees), and meeting the emissions limits on the MAERT	223 TON/H		BACT-PSD	
RBLC	TX-0878	LNG EXPORT TERMINAL	TX	09/15/2022	Refrigeration Compression Turbines	NATURAL GAS	Equipment specifications & work practices - Good combustion practices and use of low carbon fuel	504000 TON/Y		BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	Simple Cycle Turbine	natural gas	Use of natural gas and good combustion practices	No limit listed.		BACT-PSD	
RBLC	TX-0915	UNIT 5	TX	03/17/2021	COMBINED CYCLE TURBINE	NATURAL GAS	Low sulfur natural gas fuel	No limit listed.		BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	Combined Cycle Turbines	NATURAL GAS	good combustion practices and clean fuel	No limit listed.		BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	TURBINE MSS		On-line turbine washing, turbine filter changeouts, catalyst handling, fuel venting, CEMS calibration, fugitive/small equipment maintenance Good air pollution control practices and safe operating practices.	No limit listed.		BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	CIRCUIT BREAKER FUGITIVES		State-of-the-art circuit breakers that are gas-tight and require minimal SF6 are used. An AVO monitoring program is used to detect circuit breaker leaks.	No limit listed.		BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	natural gas	No control listed.	890 LB/MWH	net output after 30 years of operation	OTHER CASE-BY-CASE	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	natural gas	Energy efficient combustion practices and low GHG fuels	883 LB CO2E/MW-H	12 mo rolling total	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	Natural Gas	Energy efficient combustion practices and low GHG fuels	883 LB CO2E/MW H 12 mo rolling total	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	natural gas	Energy efficient combustion practices and low GHG fuels	812 LB/CO2E/MW-H 12 mo rolling total	BACT-PSD	
RBLC	WI-0299	WPL- RIVERSIDE ENERGY CENTER	WI	08/20/2020	Natural gas fired combustion turbine with heat recovery steam generator (P20, P21)	Natural Gas	No control listed.	350 T during any documented startup event	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	Natural Gas	Efficient turbine design, only combust pipeline quality natural gas and diesel fuel oil, Oxidation Catalyst	850 LB CO2/MW-H 12-mo rolling avg., natural gas	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	Natural Gas	No control listed.	939573 LB/START-UP	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	Natural Gas	No control listed.	1639929 LB/START-UP	BACT-PSD	
RBLC	WI-0306	WPL- RIVERSIDE ENERGY CENTER	WI	02/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase I Commissioning	Natural Gas	No control listed.	118 LB CO2/MMBT U heat input	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Combustion Turbine; S01/P01/C01a (SCR)/C01b (oxidation catalyst)	natural gas fired	(a) Efficient turbine design. (b) Only pipeline quality natural gas and diesel fuel oil may be combusted in P01. (c) An oxidation catalyst shall be used to control emissions from P01 while P01 is in operation. (d) The combustion turbine is to be equipped with oxygen monitors as part of a continuous emissions monitoring (CEM) system.	850 LB CO2/MW-HR 12-month rolling, firing natural gas	BACT-PSD	
RBLC	*WV-0029	HARRISON COUNTY POWER PLANT	WV	03/27/2018	GE 7HA.02 Turbine	Natural Gas	Use of Natural Gas, Model GE7HA	528543 lb/hr	BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY POWER PLANT	WV	09/18/2018	GE 7HA.01 Turbine	Natural Gas/Ethane	Use of Natural Gas, Model GE7HA	417382 lb/hr	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	Thermal efficiency/combustion air cooling and use of lower carbon fuels.	852 LB/MWH GROSS 12 month rolling avg	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	Thermal efficiency/combustion air cooling and use of lower carbon fuels	852 LB/MWH GROSS 12 month rolling avg	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Combined Cycle Combustion Turbine without Duct Burner Firing ULSD	ULSD	GOOD COMBUSTION PRACTICES.	888 LB/MW-H consecutive 12 month rolling monthly	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	ULSD	use of ULSD a low sulfur fuel	888 LB/MW-H based on consecutive 12 month rolling	BACT-PSD	
CARB, SCAQMD, BAAQMD								No GHG limits given for BACT.		
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural gas or ULSD	Low sulfur fuels	905 lb CO2/MWh- 12 month rolling gross 1 avg	BACT	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural gas or ULSD	Good combustion and operating practices	905 lb CO2/MWh- 12 month rolling gross 1 avg	BACT	
Permit Application	N/A	Western Farmers Electric Cooperative	OK	12/2/2024	Simple Cycle CTs (only CTs and cooling tower)	Natural gas	Low carbon fuel and gas turbine efficiency combined with wet compression during periods of high ambient temperatures	120 LB CO2/MMBT U 12 month rolling avg	BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Use of low carbon fuels and energy efficiency	7356 Btu (HHV)/Net kWh	BACT	Same emission limit, with or without duct burning
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	ULSD or ULSK	Use of low carbon fuels and energy efficiency	7724 Btu (HHV)/Net kWh	BACT	Same emission limit, with or without duct burning
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Use of low carbon fuels and energy efficiency	7356 Btu (HHV)/Net kWh	BACT	Same emission limit, with or without duct burning

End of table

C-1c
Combustion Turbines, CO
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	Natural Gas	Oxidation catalyst and good combustion practices	5 PPMV @ 15% O2 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	Natural Gas	Oxidation catalyst and good combustion control practices	5 PPMV @ 15% O2 3-hour average	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Four Combined Cycle Gas-Fired Turbines	Natural Gas	Oxidation Catalyst and good combustion practices	2 PPMV @ 15% O2 3-hours	BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	Two 744 MW Combined Cycle Units	Natural Gas	Oxidation Catalyst	23.8 lb/hr 3 hour avg	BACT-PSD	
RBLC	CA-1251	PALMDALE ENERGY PROJECT	CA	04/25/2018	Combustion Turbines (GEN1 and GEN2)	Natural Gas	Oxidation Catalyst	1.5 PPM @ 15% O2 1-hr, demo limit, w/o duct firing	BACT-PSD	
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	Oxidation Catalyst	0.9 PPMVD @15% O2 1 hr block	BACT-PSD	
RBLC	CT-0158	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	Oxidation Catalyst	0.9 PPMVD @15% O2 1 hr block	BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/o Duct Firing	Natural Gas	Oxidation Catalyst	0.9 PPMVD @15% O2 1 hour block	BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/Duct Firing	Natural Gas	Oxidation Catalyst	1.7 lb/MMBtu 1 hour block	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Combined-cycle electric generating unit	Natural gas	Clean burners that prevent CO formation	4.3 PPMVD @15% O2 3-hr average, natural gas operation	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	2-on-1 combined cycle unit (GE 7HA)	Natural gas	Clean burning fuel with lean pre-mix turbines	4.3 PPMVD @15% O2 at loads > 90%	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	1-on-1 combined cycle unit (GE 7HA)	Natural Gas	Clean burning fuel with good combustion practices	4.3 PPMVD @15% O2 (turbine loads at 90%); three 1-hr runs	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	Natural Gas	Clean burning fuel with good combustion practices	4.3 PPMVD AT 15% O2 (turbine loads at 90%); three 1-hr	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Combined Cycle Combustion Turbines	Natural Gas	Oxidation catalyst	2 PPMV @ 15 % O2 3 operating-hour, rolled hourly, average	BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Combined-Cycle Combustion Turbine	Natural Gas	Oxidation catalyst	2 PPMV 3 operating hour average @ 15% o2	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Combined-Cycle Combustion Turbines	Natural Gas	Oxidation catalyst and good combustion practices	1.5 PPMV @ 15% O2 turbine load > or = 60% w/o duct burners	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGB	natural gas	oxidation catalyst	2 PPMVD @ 15% o2 based on a 3-hr average	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGA SU/SD	Natural gas	No control listed.	1724 LB PER EVENT	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGB SU/SD		No control listed.	310 LB/EVENT cold start	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGA	Natural Gas	Oxidation catalyst	2 PPMVD 15% o2 based on a 3-hr average	BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.-CAYUGA GENERATING STATION	IN	02/14/2025	Combustion Turbines (6A and 6B)	Natural Gas	Oxidation Catalyst and good combustion practices	2 PPMVD @15% O2 3-hour rolling average excl. su/sd	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	L3804	Refinery Fuel Gas	Proper combustion and operation	40 PPMVD 3-hour rolling average	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Combined Cycle Unit 1A	Natural Gas	Catalytic Oxidation and good combustion practices during normal operations, and good combustion practices during startup/shutdown operations.	125.21 lb/hr hourly maximum	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Combined Cycle Unit 1B	Natural Gas	Catalytic oxidation and good combustion practices during normal operations, and good combustion practices during startup/shutdown operations.	125.21 lb/hr hourly maximum	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	Natural Gas	Oxidation Catalyst, Proper Design, Good Combustion Practices.	5 PPMV 30 day rolling average	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Cogeneration Units	Natural Gas	Good combustion practices and catalytic oxidation	4 PPMVD	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	*LA-0365	BIG CAJUN I POWER PLANT	LA	06/27/2019	Combustion Turbine #1 (EQT0002, CTG-1)	Natural Gas	No control listed.	25 PPMV	three hour rolling average	BACT-PSD	
RBLC	*LA-0365	BIG CAJUN I POWER PLANT	LA	06/27/2019	Combustion Turbine #2 (EQT0003, CTG-2)	Natural Gas	No control listed.	25 PPMV	three hour rolling average	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	Natural Gas	Catalytic oxidation and good combustion practices.	2 PPMVD	24-hr rolling avg based on 1-hr avg	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Combined Cycle Gas Turbine Startup and Shutdown	Natural Gas	Good combustion practices.	1620 lb/hr		BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - COLD STARTUP	NATURAL GAS	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	1772 LB/EVENT	cold startup	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES	NATURAL GAS	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	2 PPMVD @ 15% O2	3-hour block average (excluding su/sd)	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - WARM STARTUP	NATURAL GAS	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	1461 LB/EVENT	warm startup	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - HOT STARTUP	NATURAL GAS	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	1216 LB/EVENT	hot startup	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - SHUTDOWN	NATURAL GAS	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	156 LB/EVENT	shutdown	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	Natural gas	Oxidation catalyst technology and good combustion practices.	24.7 lb/hr	24-h rolling avg	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	Natural gas	Oxidation catalyst technology and good combustion practices.	4 PPM	each eu; 24-h roll avg except	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	FGCTGHRSG--Startup/Shutdown (2 combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	Natural gas	Oxidation catalyst technology and good combustion practices.	247.3 lb/hr	operating hour during startup	BACT-PSD	
RBLC	MI-0427	FILER CITY STATION	MI	11/17/2017	EUCCT (Combined cycle CTG with unfired HRSG)	Natural gas	Oxidation catalyst technology and good combustion practices.	4 PPM	24-h roll.avg., except startup/shutdown	BACT-PSD	
RBLC	MI-0427	FILER CITY STATION	MI	11/17/2017	EUCCT (Startup/Shutdown)	Natural gas	Oxidation catalyst technology and good combustion practices.	1580 POUNDS	pounds per event	BACT-PSD	
RBLC	MI-0432	NEW COVERT GENERATING FACILITY	MI	07/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	Natural gas	Oxidation catalyst technology and good combustion practices.	2 PPMVD	each ct/hrsg train; 24-hr roll avg	BACT-PSD	
RBLC	MI-0432	NEW COVERT GENERATING FACILITY	MI	07/30/2018	FG-TURB/DB1-3--Startup/Shutdown Operations	Natural gas	Oxidation catalyst technology and good combustion practices.	1164 lb/hr	each ct/hrsg train; startup/shutdown	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Oxidation catalyst technology and good combustion practices.	4 PPMV	at 15%o2; 240hr roll avg; not s.s.	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Oxidation catalyst technology and good combustion practices.	4 PPMVD	at 15%o2; 24-h roll avg; not incl st/sh	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	Natural gas	Oxidation catalyst technology and good combustion practices.	0.0045 lb/MMBtu	each unit; 24-h roll avg; not s.s.	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)--Startup & Shutdown	Natural gas	Oxidation catalyst technology and good combustion practices.	791.5 lb/hr	each unit; operating hour during s.s.	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	Natural gas	An oxidation catalyst for CO control for each CTG/HRSG unit, good combustion practices.	4 PPM	ppmvd@15 %o2; 24-h avg; see notes	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	Natural gas	An oxidation catalyst for CO control for each CTG/HRSG unit; good combustion practices.	4 PPM	ppmvd@15 %o2;24-h roll avg; see notes	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGCTGHRSG	Natural gas	Oxidation catalyst and good combustion practices	2 PPM	ppmvd; each unit; 24-hr avg, no start/sh	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGCTGHRSG	Natural gas	Oxidation catalyst technology and good combustion practices.	4 PPM	ppmvd @15% o2. 24hr roll avg except ss	BACT-PSD	

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RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUCTGHRSG1	Natural gas	An oxidation catalyst for CO control for each CTG/HRSG unit, good combustion practices.	4 PPM	24-hr roll avg except startup/shutdown	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUCTGHRSG2	Natural gas	An oxidation catalyst for CO control for each CTG/HRSG unit, good combustion practices.	4 PPM	24-hr roll avg except startup/shutdown	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	Natural gas	Oxidation catalyst technology and good combustion practices.	2 PPM	24-hr rolling avg	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Oxidation Catalyst Technology and Good Combustion Practices	2 PPM	24-hr rolling avg	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUCTGHRSG1	Natural gas	An oxidation catalyst for CO control for each CTG/HRSG unit, good combustion practices.	9 lb/hr	hourly except during su/sd	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUCTGHRSG2	Natural gas	An oxidation catalyst for CO control for each CTG/HRSG unit, good combustion practices.	4 PPM	ppmvd at 15%O ₂ ; 24-hr roll avg exc su/sd	BACT-PSD	
RBLC	MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MI	02/01/2023	EUCTGHRSG1	Natural gas	Oxidation catalyst	2 PPM	ppmvd at 15%O ₂ ; 24-hr roll avg exc su/sd	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	natural gas	Oxidation Catalyst and good combustion practices	2 PPMVD @15%O ₂	3 h rolling av based on one h block av	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	Natural Gas	OXIDATION CATALYST AND GOOD COMBUSTION PRACTICES	2 PPMVD @15% O ₂	3 h rolling av based on one h block av	BACT-PSD	
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	Natural Gas	Oxidation catalyst and use of clean burning fuels, natural gas and ULSD	11.1 lb/hr	av of three one h stack tests every 5 yr	OTHER CASE-BY-CASE	
RBLC	OH-0365	ROLLING HILLS GENERATING, LLC	OH	05/20/2015	Combustion Turbines, Scenario 1 (4, identical) (P001, P002, P004, P005)	Natural gas	Oxidation catalyst	10.4 lb/hr	without duct burners. see notes.	BACT-PSD	
RBLC	OH-0365	ROLLING HILLS GENERATING, LLC	OH	05/20/2015	Combustion Turbines, Scenario 2 (4, identical) (P001, P002, P004, P005)	Natural gas	Oxidation catalyst	12 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Good combustion controls and oxidation catalyst	14.3 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Good combustion controls and oxidation catalyst	18.57 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Good combustion controls and oxidation catalyst	15.5 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	oxidation catalyst and good combustion control	15.5 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	Natural gas	oxidation catalyst and good combustion practices as recommended by the manufacturer	20.76 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	General Electric Combustion Turbine (P004)	Natural gas	Oxidation catalyst and good combustion practices as recommended by the manufacturer.	15.9 lb/hr	except startup and shutdown. see notes	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Mitsubishi Combustion Turbine (P005)	Natural gas	oxidation catalyst and shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer	15.3 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Siemens Combustion Turbine (P006)	Natural gas	oxidation catalyst and shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer	16.5 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	Natural gas	Good combustion practices and oxidation catalyst	17.9 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	Natural gas	Good combustion practices and oxidation catalyst	17.1 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OK-0169	PSO COMANCHE POWER STATION	OK	10/08/2015	COMBINED CYCLE COMBUSTION TURBINE	NATURAL GAS	Controlled Startup and Shutdown procedures with respect to Dry Low NOx Burners.	0.0785 lb/MMBtu	3-hr avg normal operation	BACT-PSD	
RBLC	PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	PA	02/12/2016	Large combustion turbine	Natural Gas	Oxidation Catalyst and good combustion practice	15.9 lb/hr	3 hr average	BACT-PSD	

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RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two Combine Cycle Combustion Turbine with Duct Burner	Natural Gas	Oxidation catalyst and good combustion practices	2 PPMDV @ 15% O2	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Combustion turbine with duct burner	Natural gas	Oxidation catalyst, combustion controls, exclusive natural gas	2 PPMDV @ 15 % O2	BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG with duct burner NG only	Natural Gas	Oxidation catalyst operated at all steady state operating loads and good combustion practices	2 PPMDV @ 15% O2	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Combustion Turbine With Duct Burner	Natural Gas	Oxidation catalyst and good combustion practices	2 PPMDV @ 15% O2	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Combustion Turbine without Duct Burner		Oxidation catalyst, good engineering practice	2 PPMDV @ 15% O2	BACT-PSD	
RBLC	*PA-0315	HILLTOP ENERGY CENTER, LLC	PA	04/12/2017	Flue Gas Heater		No control listed.	0.037 LB mmbtu		
RBLC	*PA-0315	HILLTOP ENERGY CENTER, LLC	PA	04/12/2017	Combustion Turbine without Duct Burner	Natural Gas	Oxidation Catalyst	2 PPMDV corrected to 15% o2	BACT-PSD	
RBLC	*PA-0319	RENAISSANCE ENERGY CENTER	PA	08/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	Natural Gas	Oxidation Catalyst	2 PPPDV @15% o2	BACT-PSD	
RBLC	PA-0333	ESC TIOGA COUNTY POWER LLC/ELEC PWR GEN FAC	PA	08/20/2019	COMBUSTION TURBINE/DUCT BURNER	Natural Gas	No control listed.	1.5 PPMVD @ 15% o2 / 1 hr	BACT-PSD	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE #2 (ULSD)	ULSD	selective catalytic reduction (SCR) system, oxidation catalyst.	2 PPMVD @ 15% o2 / 1 hr	LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE #1 (ULSD)	ULSD	SCR, Catalytic Oxidizer	2 PPMVD @ 15% o2 / 1 hr	LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	Natural Gas	SCR, CATALYTIC OXIDIZER	1.5 PPMVD @ 15% o2 / 1 hr	LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	Natural Gas	SCR, Catalytic Oxidizer	1.5 PPMVD @ 15% o2 / 1 hr	LAER	
RBLC	PA-0336	YORK ENERGY CRT DELTA	PA	12/14/2021	Combined Cycle Combustion Turbines	ULSD	Oxidation Catalyst	2 PPMVD >=90% load	BACT-PSD	
RBLC	TN-0162	JOHNSONVILLE COGENERATION	TN	04/19/2016	Natural Gas-Fired Combustion Turbine with HRSG	Natural Gas	Good combustion design and practices, oxidation catalyst	2 PPMVD @ 15% O2	30 unit-operating-day moving average	BACT-PSD
RBLC	*TN-0164	TVA - JOHNSONVILLE COGENERATION	TN	02/01/2018	Dual-fuel CT and HRSG with duct burner	Natural Gas	Oxidation catalyst, good combustion design & practice	2 PPMVD @ 15% O2	30-day avg when burning natural gas	BACT-PSD
RBLC	TX-0727	CEDAR BAYOU ELECTRIC GENERATING STATION	TX	03/31/2015	Combined cycle turbines	Natural Gas	Oxidation catalysts	15 PPMVD 15%o2	BACT-PSD	
RBLC	TX-0730	COLORADO BEND ENERGY CENTER	TX	04/01/2015	Combined-cycle gas turbine electric generating facility	natural gas	SCR and oxidation catalyst	4 PPMVD @ 15% O2	3-hr average	BACT-PSD
RBLC	TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TX	06/18/2015	Combined Cycle Turbines (>25 MW) â€™ natural gas	natural gas	Oxidation catalyst	2 PPM	rolling 24-hr average	LAER
RBLC	TX-0767	LON C. HILL POWER STATION	TX	10/02/2015	Combined Cycle Turbines (>25 MW)	natural gas	Oxidation Catalyst	2 PPM	rolling 24-hr average	BACT-PSD
RBLC	TX-0773	FGE EAGLE PINES PROJECT	TX	11/04/2015	Combined Cycle Turbines (>25 MW)	natural gas	Oxidation Catalyst	2 PPM	3-hr average	BACT-PSD
RBLC	TX-0788	NECHES STATION	TX	03/24/2016	Combined Cycle & Cogeneration	natural gas	OXIDATION CATALYST	4 PPM	hourly	BACT-PSD
RBLC	TX-0789	DECORDOVA STEAM ELECTRIC STATION	TX	03/08/2016	Combined Cycle & Cogeneration	natural gas	OXIDATION CATALYST	4 PPM		BACT-PSD
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Refrigeration Compression Turbines	natural gas	Dry low NOx burners and good combustion practices	25 PPM	rolling 3-hr average	BACT-PSD
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Simple Cycle Electrical Generation Gas Turbines 15.210	natural gas	OXIDATION CATALYST	9 PPM	rolling 3-hr average	BACT-PSD
RBLC	TX-0819	GAINES COUNTY POWER PLANT	TX	04/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	NATURAL GAS	Selective Catalytic Reduction (SCR) and Dry Low NOx burners	2 PPMVD 15% o2 3-h avg		BACT-PSD
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	Combined Cycle Turbine	NATURAL GAS	OXIDATION CATALYST	2 PPMVD 15% o2 3 hour average		BACT-PSD
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	COMBINED CYCLE TURBINE MSS REDUCED LOAD	NATURAL GAS	minimizing duration of startup / shutdown events, engaging the pollution control equipment as soon as practicable (based on vendor recommendations and guarantees), and meeting the emissions limits on the MAERT	8000 lb/hr		BACT-PSD
RBLC	TX-0878	LNG EXPORT TERMINAL	TX	09/15/2022	Refrigeration Compression Turbines	NATURAL GAS	good combustion practices.	25 PPM	24-hr avg	BACT-PSD
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	Simple Cycle Turbine	natural gas	Oxidation catalyst	3 PPMVD		BACT-PSD

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RBLC	TX-0915	UNIT 5	TX	03/17/2021	COMBINED CYCLE TURBINE	NATURAL GAS	OXIDATION CATALYST	4 PPMVD	3-hr rolling	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	Combined Cycle Turbines	NATURAL GAS	Oxidation Catalyst and good combustion practices	2 PPMVD	15% o2 24-hr average	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	TURBINE MSS		On-line turbine washing, turbine filter changeouts, catalyst handling, fuel venting, CEMS calibration, fugitive/small equipment maintenance Good air pollution control practices and safe operating practices.	No limit listed.		BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	natural gas	Oxidation Catalyst	1.6 PPMVD	3 hr avg	N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	natural gas	Oxidation catalyst and good combustion practices	1 PPMVD @ 15% O2	3 hr av/without db	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	Natural Gas	Oxidation catalyst & good combustion practice	1.8 PPMVD @ 15% O2	3 h av/with or without db	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Tuning & Water Washing	natural gas	Oxidation catalyst and good combustion practices	194 LB/TURB INE/DAY	24 hr av	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Startup and Shutdown	natural gas	Oxidation catalyst and good combustion practice	840 LB/TURB INE/EVE NT	cold start 60 min or less	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combustion Turbine - Tuning & Water Washing	Natural Gas	Oxidation catalyst and good combustion practices	309 LB/TURB INE/DAY	24 hr av	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combustion Turbine - Startup & Shutdown	Natural Gas	Oxidation catalyst and good combustion practices	434 LB/TURB INE/EVE NT	cold start 55 min or less	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	natural gas	Controlled by an oxidation catalyst and good combustion practices (e.g. controlled fuel/air mixing, adequate temperature, and gas residence time).	1 PPMVD @ 15% O2	3 hr avg	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems Combustion	natural gas	Oxidation catalyst and good combustion practices	214 LB/TURB INE/DAY	24 hr total	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	natural gas	Oxidation catalyst and good combustion practices	444 LB/TURB INE/EVE NT	cold start 42 min or less	BACT-PSD	
RBLC	VA-0334	DOMINION ENERGY - BRUNSWICK	VA	12/01/2020	COMBUSTION TURBINE GENERATORS, (3) with Alternate Operating Scenario - Turbine Tuning	natural gas	Oxidation catalyst and good combustion practices.	416 LBS	calendar day/per turbine	BACT-PSD	
RBLC	VA-0334	DOMINION ENERGY - BRUNSWICK	VA	12/01/2020	COMBUSTION TURBINE GENERATORS, (3) with Alternate Operating Scenario - Turbine Blade Water Washing	Natural Gas	Oxidation catalyst and good combustion practices.	416 LBS	calendar day/per turbine	BACT-PSD	
RBLC	*VA-0335	PANDA STONEWALL LLC	VA	12/18/2020	Combustion Turbines, Two (2) and HRSG Duct Burners	Natural Gas	Catalytic Oxidizer	2 PPMVD @ 15% O2	normal operation w & w/o duct burning	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	Natural Gas	Oxidation Catalyst and good combustion controls	1.5 PPM AT 15% O2	168-hr rolling avg., natural gas	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	Natural Gas	No control listed.	11066 LB/STAR T-UP		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	Natural Gas	No control listed.	25846 LB/STAR T-UP		BACT-PSD	
RBLC	WI-0306	WPL- RIVERSIDE ENERGY CENTER	WI	02/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase I Commissioning	Natural Gas	No control listed.	1750 PPMVD, 15% OXYGEN	avg. any 24-hr operational	BACT-PSD	
RBLC	WI-0306	WPL- RIVERSIDE ENERGY CENTER	WI	02/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase II Commissioning	Natural Gas	No control listed.	150 PPMVD, 15% OXYGEN	avg. any 24-hr operational period	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Combustion Turbine; S01/P01/C01a (SCR)/C01b (oxidation catalyst)	natural gas-fired	Except during start-up and shutdown, BACT has been determined to be: (a) An oxidation catalyst shall be used to control emissions from P01 while P01 is in operation. (b) The permittee shall use good combustion control according to the manufacturer's recommendations.	1.5 PPM	168-hour rolling ave, firing natural gas	BACT-PSD	
RBLC	*WV-0029	HARRISON COUNTY POWER PLANT	WV	03/27/2018	GE 7HA.02 Turbine	Natural Gas	Oxidation Catalyst, Good Combustion Practices	20 lb/hr	1-hour average	BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY POWER PLANT	WV	09/18/2018	GE 7HA.01 Turbine	Natural Gas/Ethane	Oxidation Catalyst, Good Combustion Practices	14.1 lb/hr		BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	Good Combustion Practices and OxCat	2 PPMVD @ 15% O2	3-hour block average	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	Good Combustion Practices and Oxidation catalyst	2 PPMVD @ 15% O2	3-hour block average	BACT-PSD	
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	ULSD	Oxidation Catalyst	2 PPMVD @15% O2	1 hr block	BACT-PSD	
RBLC	CT-0158	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	ULSD	Oxidation Catalyst	2 PPMVD @15% O2	1 hr block	BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	ULSD w/o Duct Firing	ULSD	Oxidation Catalyst	1.8 PPMVD @15% O2	1 hour block	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Combined Cycle Combustion Turbine without Duct Burner Firing ULSD	ULSD	Oxidation Catalyst and good combustion practices	2 PPMVD @ 15% O2	3 h rolling av based on one h block	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	ULSD	Oxidation Catalyst and good combustion practices	2 PPMVD @15%O2	3 h rolling av based on one h block av	BACT-PSD	
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	ULSD	Oxidation Catalyst and use of clean burning fuels	18.4 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two combined cycle combustion turbines ULSD fired with duct burner NG fired	ULSD and NG	Oxidation catalyst, good combustion practices and low sulfur fuels	3.5 PPMVD @ 15% O2		BACT-PSD	
SCAQM D	581392	Walnut Creek Energy, LLC	CA	1-Feb-19	Simple Cycle natural gas fired turbine with Intercooler and water injection. Peaker Unit. 891.7 MMBTU/hr Max heat input; 100.1 MW Net Power Output	Natural Gas	OxyCat and SCR, Ammonia Injection Grid with aqueous ammonia stored in a 16,000 gallon tank	4 ppmv	1-hour with 15% o2 correction	BACT/LAER	Mass limits are available too.
SCAQM D	579955	Pasadena City, DWP	CA	8-Mar-18	Combined Cycle with SCR, Oxidation catalyst, water injection and Steam Turbine (ST-5), Shinn Nippon, model C8-R11-RX	Natural Gas	Haldor Topsøe (SCR) & Emerachem (Oxidation Catalyst); aqueous ammonia injection grid	2 ppmv	1-hour with 15% o2 correction	BACT/LAER	Mass limits are available too.
BAAQM D								No CO limits given for BACT.			
BAAQM D								No CO limits given for BACT.			
CARB/SC AQMD	81391	Virginia Electric and Power Company	VA	1-Feb-19	Combined Cycle with Duct Burner HRSG, SCR, Oxidation catalyst and common Steam Turbine, Nominal 1,280MW electrical power generating facility consisting of three gas turbine generators each 299.6MW serving common steam turbine with 539MW generator.		SCR with aqueous ammonia injection grid for NOx control and Oxidation Catalyst for CO and VOC control.	1.5 ppmv	1-hour with 15% o2 correction	BACT/LAER	Limit is given w/o duct burner
CARB/SC AQMD	25800	SMUD FINANCING AUTHORITY (COSUMNES POWER PLANT)	CA	10/30/2018	Combined Cycle Turbine, 2200 mmBTU/hr		SCR and Oxidation Catalyst; PM and Sox: Natural Gas or Equiv. that meets 0.7 gr S/100 scf	No CO limit given.			
CARB/SC AQMD	595485	LA City, Sanitation Bureau (HTP)	CA	1-Feb-19	Combined Cycle (No. 2) with SCR, Oxidation catalyst and Steam Turbine, equipped with a digester gas clean-up system; Generator serving turbine is 11.35MW with two (2) common shared steam turbine generators 7.8MW and 1MW. Three Duct Burners each 14MMBtu/hr.	Digester Gas	SCR catalyst with three modules of homogeneous honeycomb-type mixed metal catalyst each 11'-8"L x 6'-10"W x 3'-11"H / Oxidation Catalyst with 30 metal foil monoliths of platinum group metals, total layer 12'-3"L x 0'-4"W x 13'-4"H with total weight of 3060 lbs. Aqueous ammonia injection grid.	60 ppmv	1-hour with 15% o2 correction	BACT/LAER	Mass limits are available too.
CARB/SC AQMD	492565	Signal Hill Petroleum, Inc.	CA	1-Feb-19	Simple Cycle with SCR and Oxidation catalyst, 76.20 MMBtu/hr	Produced gas mixed with natural gas	High temperature zeolite SCR with ammonia injection; SCR: 400 cu.ft., 16'W x 12'H x 34'L and OxiCat: 28 cu.ft. of catalyst volume.	6 ppmv	1-hour with 15% o2 correction	BACT/LAER	
CARB/SC AQMD	589228	Sunshine Gas Producers, LLC	CA	1-Feb-19	Generator serving gas turbine is 4.9MW, Simple Cycle Turbine with recuperation, fueled on treated 100% LFG from Sunshine Canyon Landfill, Sunshine Gas Producers utilizes this LFG fired turbine to generate electricity to sell back to electric company. The unit does not recover exhaust waste heat. This is one of five identical units at this location. There are no add-on controls.	LFG	None	21.5 ppmv	1-hour with 15% o2 correction	BACT/LAER	
CARB/SC AQMD	601928	City of Riverside Public Utilities Dept	CA	5-Feb-21	Simple Cycle CT with intercooler and water injection, power output is 49.8 MW	Natural Gas	SCR and Oxidation Catalyst, ammonia injection grid with aqueous ammonia	4 ppmv	1-hour with 15% o2 correction	BACT/LAER	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas or ULSD	Good combustion practices	2 ppmvd	4-hr with 15% o2 correction	BACT	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas or ULSD	Clean/low-emitting fuels	2 ppmvd	4-hr with 15% o2 correction	BACT	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas or ULSD	Oxidation catalyst	2 ppmvd	4-hr with 15% o2 correction	BACT	
Permit Application	N/A	Greenville County Power Station	VA	11-Nov-14	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Good combustion control and an oxidation catalyst	1.5 ppmvd	3-hour with 15% o2 correction	BACT	This emission limit is without duct burning. Limit with duct burning is 2.4 ppmvd, 3-hr with 15% O2 correction
Permit Application	N/A	Greenville County Power Station	VA	11-Nov-14	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	ULSD or ULSK	Good combustion control and an oxidation catalyst	7.5 ppmvd	3-hour with 15% o2 correction	BACT	Same emission limit, with or without duct burning
Permit Application	N/A	Greenville County Power Station	VA	26-Aug-15	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Good combustion control and an oxidation catalyst	1.5 ppmvd	3-hour with 15% o2 correction	BACT	This emission limit is without duct burning. Limit with duct burning is 2.4 ppmvd, 3-hr with 15% O2 correction

End of table

Appendix C-1d
BACT Analysis Database Search Results: Combustion Turbines, SO2
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	Natural Gas	Good combustion practices and clean burning fuel low sulfur natural gas	96 PPMV SULFUR IN FUEL	prior to completing treatment trains	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	Natural Gas	Good combustion practices and clean burning fuel low sulfur natural gas	96 PPMV SULFUR IN FUEL	prior to completing treatment trains	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Four Combined Cycle Gas-Fired Turbines	Natural Gas	Pipeline quality natural gas and good combustion practices	16 PPMV SULFUR IN FUEL		BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	Two 744 MW Combined Cycle Units	Natural Gas	No control listed.	0.6 GR S/100 SCF FUEL		BACT-PSD	
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	No control listed.	4.49 lb/hr		BACT-PSD	
RBLC	CT-0158	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	Use of inherently low sulfur fuel	4.49 lb/hr		BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/o Duct Firing	Natural Gas	Low Sulfur fuel	0.0015 lb/MMBtu		OTHER CASE-BY-CASE	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/Duct Firing	Natural Gas	Low Sulfur Fuel	0.0015 lb/MMBtu		OTHER CASE-BY-CASE	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Combined-cycle electric generating unit	Natural gas	Use of low-sulfur fuels	2 GR. S/100 SCF GAS	for natural gas	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	2-on-1 combined cycle unit (GE 7HA)	Natural gas	Clean fuels	No limit listed.		BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	1-on-1 combined cycle unit (GE 7HA)	Natural Gas	Clean Fuels	No limit listed.		BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	Natural Gas	Low sulfur fuel	1.4 GR. S/100 SCF NG		BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Combined-Cycle Combustion Turbines	Natural Gas	Good combustion practices and use of natural gas with a sulfur content of no more than 0.5 grains (gr)/100 standard cubic feet (scf).	5.5 POUNDS/HOUR	rolling 3-operating hour	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGB	Natural Gas	No control listed.	0.0019 LB PER MMBTU	based on 3-hr average	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGA	Natural Gas	No control listed.	0.0017 lb/MMBtu	3-hr average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	L3804	Refinery Fuel Gas	Low Sulfur Fuel Gas	0.0034 lb/MMBtu	3-hour rolling average	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	Natural Gas	Exclusive Combustion of Low Sulfur Fuel and Proper Engineering Practices	4 PPMV	annual average	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Cogeneration Units	Natural Gas	Use of pipeline quality natural gas or fuel gas.	1.24 lb/hr		BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES	NATURAL GAS	No control listed.	26 NG/J HEAT INPUT	at all times	N/A	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	Natural gas	Good Combustion Practices and the use of pipeline quality natural gas.	11.7 lb/hr	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0432	NEW COVERT GENERATING FACILITY	MI	07/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	Natural gas	Use of clean fuel (natural gas) with a fuel sulfur limit of 0.8 grains per 100 standard cubic feet of natural gas.	0.8 GR/100 SCF	nat.gas burned in fg-turb/db1-3	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	6.6 lb/hr	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	6.6 lb/hr	hourly	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGCTGHRSG	Natural gas	The use of clean fuel (natural gas), with a fuel sulfur limit of 1 grain per 100 standard cubic feet of natural gas.	0.003 lb/MMBtu	hourly; each unit	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGCTGHRSG	Natural gas	Good combustion practices, inlet air conditioning and the use of pipeline quality natural gas.	11.7 lb/hr	hourly; each ctghrsrg	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	6.6 lb/hr	hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good Combustion Practices and the use of pipeline quality natural gas	6.6 lb/hr	hourly	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	natural gas	USE OF NATURAL GAS A LOW SULFUR FUEL CLEAN FUEL	6.64 lb/hr	av of three one h stack tests every 5 yr	OTHER CASE-BY-CASE	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	Natural Gas	USE OF NATURAL GAS A CLEAN BURNING LOW SULFUR FUEL	5.62		OTHER CASE-BY-CASE	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	Natural Gas	USE OF NATURAL GAS AND ULSD; BOTH CLEAN BURNING FUELS	3.45 lb/hr	av of three one h stack tests every 5 yr	OTHER CASE-BY-CASE	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Low sulfur fuels	5.64 lb/hr	nat gas, with duct burner. see notes.	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Low sulfur fuel	5.1 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	low sulfur fuel	5.1 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	Natural gas	pipeline quality natural gas with a maximum sulfur content not exceed 0.50 grain/100 scf	0.0015 lb/MMBtu	see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	General Electric (GE) Combustion Turbines (P005 &P006)	Natural gas	Good combustion practices and pipeline quality natural gas	0.0017 lb/MMBtu	see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 &P008)	Natural gas	Good combustion practices and pipeline quality natural gas	0.0021 lb/MMBtu		BACT-PSD	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE #2 (ULSD)	ULSD	selective catalytic reduction (SCR) system, oxidation catalyst.	0.0018 lb/MMBtu		LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE #1 (ULSD)	ULSD	SCR, Catalytic Oxidizer	0.0018 lb/MMBtu		LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	Natural Gas	SCR, CATALYTIC OXIDIZER	0.0012 lb/MMBtu		LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	Natural Gas	SCR, Catalytic Oxidizer	0.0012 lb/MMBtu		LAER	
RBLC	TX-0730	COLORADO BEND ENERGY CENTER	TX	04/01/2015	Combined-cycle gas turbine electric generating facility	natural gas	efficient combustion, natural gas fuel	2 GR/100 SCF	1-hour	BACT-PSD	
RBLC	TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TX	06/18/2015	Combined Cycle Turbines (>25 MW) & natural gas	natural gas	No control listed.	40.66 lb/hr		BACT-PSD	
RBLC	TX-0788	NECHES STATION	TX	03/24/2016	Combined Cycle & Cogeneration	natural gas	GOOD COMBUSTION PRACTICES, LOW SULFUR FUEL	1 GR/100 SCF	hourly	BACT-PSD	
RBLC	TX-0789	DECORDOVA STEAM ELECTRIC STATION	TX	03/08/2016	Combined Cycle & Cogeneration	natural gas	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	5 GR/100 SCF	hourly	BACT-PSD	
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Refrigeration Compression Turbines	natural gas	Dry low NOx burners, good combustion practices, pipeline quality sweet natural gas fuel (low sulfur fuel)	5 GR/100 SCF		BACT-PSD	
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Simple Cycle Electrical Generation Gas Turbines 15.210	natural gas	Equipment specifications & work practices - Good combustion practices and use of low carbon, low sulfur fuel	2.96 lb/hr		BACT-PSD	
RBLC	TX-0819	GAINES COUNTY POWER PLANT	TX	04/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	NATURAL GAS	Pipeline quality natural gas	1.54 GR/100 DSCF		BACT-PSD	
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	Combined Cycle Turbine	NATURAL GAS	PIPELINE QUALITY NATURAL GAS	1 GR/100 DSCF		BACT-PSD	
RBLC	TX-0878	LNG EXPORT TERMINAL	TX	09/15/2022	Refrigeration Compression Turbines	NATURAL GAS	Good combustion practices and use of pipeline quality natural gas	No limit listed.		BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	Simple Cycle Turbine	natural gas	use of natural gas	No limit listed.		BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	natural gas	Low Sulfur fuel	0.0011 lb/MMBtu	during normal operation including su/sd	N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	natural gas	use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12-month rolling average.	0.0011 lb/MMBtu	3 hr avg	OTHER CASE-BY-CASE	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	Natural Gas	use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12 mo rolling av.	0.0011 lb/MMBtu	3 h av	OTHER CASE-BY-CASE	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	natural gas	Controlled by the use of pipeline-quality natural gas with a maximum sulfur content of 0.4 grains per 100 standard cubic feet (scf), on a 12-month rolling average.	0.0011 lb/MMBtu	3 hr avg	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	Natural Gas	Only use pipeline quality natural gas and diesel fuel, and use good combustion control	No limit listed.		BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	Low Sulfur Fuel	0.4 GR-S/100 SCF	see appendix d of 40cfr75	N/A	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	Low Sulfur Fuel	0.4 GR-S/100 SCF	see appendix d of 40cfr75	N/A	
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	ULSD	Use of inherently low sulfur fuel	4.92 lb/hr		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	CT-0158	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	ULSD	Use of inherently low sulfur fuel	4.92 lb/hr		BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	ULSD w/o Duct Firing	ULSD	Low sulfur fuel	0.0015 lb/MMBtu		OTHER CASE-BY-CASE	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Combined Cycle Combustion Turbine without Duct Burner Firing ULSD	ULSD	USE OF ULTRA LOW SULFUR DISTILLATE (ULSD) OIL AS FUEL	6.7 lb/hr	av of three on hour stack tests	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	ULSD	USE OF ULSD A CLEAN BURNING LOW SULFUR FUEL	6.65 lb/hr	av of three one h stack tests every 5 yr	OTHER CASE-BY-CASE	
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	ULSD	USE OF NATURAL GAS AND ULSD; BOTH CLEAN BURNING FUELS	4.8 lb/hr	av of three one h stack tests every 5 yr	OTHER CASE-BY-CASE	
SCAQMD								No SO2 limits given for BACT.			
BAAQMD								No SO2 limits given for BACT.			
CARB/SCAQMD	25800	SMUD FINANCING AUTHORITY (COSUMNES POWER PLANT)	CA	10/30/2018	Combined Cycle Turbine, 2200 mmBTU/hr		SCR and Oxidation Catalyst; PM and Sox; Natural Gas or Equiv. that meets 0.7 gr S/100 scf	0.7 GR S/100 SCF FUEL			
CARB/SCAQMD	492565	Signal Hill Petroleum, Inc.	CA	1-Feb-19	Simple Cycle with SCR and Oxidation catalyst, 76.20 MMBtu/hr	Produced gas mixed with natural gas	High temperature zeolite SCR with ammonia injection; SCR: 400 cu.ft., 16'W x 12'H x 34'L and OxiCat: 28 cu.ft. of catalyst volume.	150 ppmv	1-hour with 15% o2 correction	BACT/LAER	Limit is for SOx.
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas	Low sulfur content fuels	0.5 grains sulfur/100 scf		BACT	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	ULSD	Low sulfur content fuels	15 ppm sulfur		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11-Nov-14	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Pipeline quality natural gas with an estimated sulfur content of 0.4 gr S/100 scf	0.00114 lb/MMBtu		BACT	Same emission limit, with or without duct burning
Permit Application	N/A	Greensville County Power Station	VA	11-Nov-14	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	ULSD or ULSK	Limited use of ULSD or ULSK as a backup fuel, with a sulfur content limited to 15 ppm by weight or less	0.00154 lb/MMBtu		BACT	Same emission limit, with or without duct burning
Permit Application	N/A	Greensville County Power Station	VA	26-Aug-15	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Use of low sulfur fuels	0.00114 lb/MMBtu		BACT	Same emission limit, with or without duct burning

End of table

Appendix C-1e
BACT Analysis Database Search Results: Combustion Turbines, NOx
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	Natural Gas	DLN combustors and Good Combustion Practices	17 PPMV @ 15% O2	3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	Natural Gas	DLN combustors and good combustion practices	17 PPMV @ 15% O2	3-hour average	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Four Combined Cycle Gas-Fired Turbines	Natural Gas	SCR, DLN combustors, and good combustion practices	2 PPMV @ 15% O2	3-hours	BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	Two 744 MW Combined Cycle Units	Natural Gas	SCR	2 PPM	3 hour avg / @15% o2	BACT-PSD	
RBLC	CA-1251	PALMDALE ENERGY PROJECT	CA	04/25/2018	Combustion Turbines (GEN1 and GEN2)	Natural Gas	Selective Catalytic Reduction, Dry Low NOx Burners	2 PPM @ 15% O2	1-hour	BACT-PSD	
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	SCR	2 PPMVD @15% O2	1 hr block	LAER	
RBLC	CT-0158	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	SCR	2 PPMVD @15% O2	1 hr block	LAER	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/o Duct Firing	Natural Gas	SCR	2 PPMVD @15% O2	1 hour block	LAER	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/Duct Firing	Natural Gas	SCR	2 PPMVD @15% O2	1 hour block	LAER	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Combined-cycle electric generating unit	Natural gas	Selective catalytic reduction; dry low-NOx; and wet injection	2 PPMVD @ 15% O2	gas, 24-hr block, excluding ssm	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	1-on-1 combined cycle unit (GE 7HA)	Natural Gas	Dry low-NOx combustors and Selective Catalytic Reduction (SCR)	2 PPMVD AT 15% O2	24-hour block average basis (bact)	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	Natural Gas	Dry low-NOx combustors and Selective Catalytic Reduction (SCR)	2 PPMVD AT 15% O2	24-hour block average basis (bact)	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Combined Cycle Combustion Turbines	Natural Gas	Selective catalytic reduction (SCR) and low-NOx combustion technology (dry low-NOx combustion technology for natural gas; water injection for ULSD)	2 PPMV @ 15% O2	3-unit operating hours	LAER	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Combined-Cycle Combustion Turbine	Natural Gas	Selective Catalytic Reduction (SCR) and low-NOx technology (dry low-NOx combustion technology)	2 PPMV	3-unit operating hours @ 15% o2	LAER	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Combined-Cycle Combustion Turbines	Natural Gas	Dry low-NOx combustion with ultra-low NOx combustors; low-NOx duct burners; and selective catalytic reduction (SCR)	2 PPMV @ 15% O2	see notes	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGB	Natural Gas	Selective Catalytic Reduction system and dry-low-NOx combustors.	2 PPMVD	15% o2 based on a 3-hr average	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK	IN	06/19/2023	Combined Cycle Turbine CTGA SU/SD	Natural gas	No control listed.	20.7 TONS PER for duration		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK	IN	06/19/2023	Combined Cycle Turbine CTGB SU/SD		No control listed.	35.8 TONS YE/ for duration		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK	IN	06/19/2023	Combined Cycle Turbine CTGA	Natural Gas	Selective catalytic reduction system and dry-low-NOx combustors	0.0085 lb/MMBtu		BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Integrated Gasification Combined Cycle Combustion Turbine	Natural Gas	Steam Injection/SCR and Good Combustion Practices	2 PPMV	15% oxygen when combusting >50% nat. gas	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	L3804	Refinery Fuel Gas	Steam/water injection	25 PPMVD	1-hour rolling average	BACT-PSD	
RBLC	LA-0313	ST. CHARLES P	LA	08/31/2016	SCPS Combined Cycle Unit 1A	Natural Gas	Selective Catalytic Reduction (SCR) with Dry Low NOx Burners (DLNB) during normal operations; Good Combustion Practices during Startup/Shutdown operations.	26.91 lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0313	ST. CHARLES P	LA	08/31/2016	SCPS Combined Cycle Unit 1B	Natural Gas	Selective Catalytic Reduction (SCR) with Dry Low NOx Burners (DLNB) during normal operations, and good combustion practices during startup/shutdown operations.	26.91 lb/hr	hourly maximum	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	Natural Gas	Low NOx Burners, SCR, and Good Combustion Practices	2.5 PPMV	30 day rolling average	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Cogeneration Units	Natural Gas	Dry low NOx combustor design along with SCR.	2 PPMVD	12-month rolling average	BACT-PSD	
RBLC	*LA-0365	BIG CAJUN I POWER PLANT	LA	06/27/2019	Combustion Turbine #1 (EQT0002, CTG-1)	Natural Gas	Dry low NOX Burners & water injection	23 PPMV	three hour rolling average	BACT-PSD	
RBLC	*LA-0365	BIG CAJUN I POWER PLANT	LA	06/27/2019	Combustion Turbine #2 (EQT0003, CTG-2)	Natural Gas	Dry low NOX burners & water injection	23 PPMV	three hour rolling average	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	Natural Gas	Dry low-NOx combustor design, selective catalytic reduction (SCR), and good combustion practices.	2 PPMVD	24-hr rolling avg based on 1-hr avg	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER	LA	06/03/2022	Combined Cycle Gas Turbine Startup and Shutdown	Natural Gas	Good combustion practices.	260 lb/hr		BACT-PSD	
RBLC	MD-0045	MATTAWOMAN	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - COLD STARTUP	NATURAL GAS	GOOD COMBUSTION PRACTICES, DRY LOW-NOX COMBUSTOR DESIGN AND SELECTIVE CATALYTIC REDUCTION (SCR)	153 LB/EVENT	1 cold startup	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES	NATURAL GAS	GOOD COMBUSTION PRACTICES, DRY LOW-NOX COMBUSTOR DESIGN AND SELECTIVE CATALYTIC REDUCTION (SCR)	2 PPMVD @ 15% O2	3-hour block average (excluding su/sd)	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - WARM STARTUP	NATURAL GAS	GOOD COMBUSTION PRACTICES, DRY LOW-NOX COMBUSTOR DESIGN AND SELECTIVE CATALYTIC REDUCTION (SCR)	132 LB/EVENT	1 warm startup	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - HOT STARTUP	NATURAL GAS	GOOD COMBUSTION PRACTICES, DRY LOW-NOX COMBUSTOR DESIGN AND SELECTIVE CATALYTIC REDUCTION (SCR)	105 LB/EVENT	1 hot startup	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - SHUTDOWN	NATURAL GAS	DRY LOW-NOX COMBUSTOR DESIGN, GOOD COMBUSTION PRACTICES AND SELECTIVE CATALYTIC REDUCTION (SCR)	23 LB/EVENT	1 shut down	BACT-PSD	
RBLC	MI-0423	INDECK NILES,	MI	01/04/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	Natural gas	SCR with DLNB (selective catalytic reduction with dry low NOx burners)	38.1 lb/hr	24-h rolling	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	Natural gas	Selective catalytic reduction with dry low NOx burners (SCR with DLNB).	3 PPM AT 15% O2	24-h rolling avg; each eu	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	FGCTGHRSG--Startup/Shutdown (2 combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	Natural gas	Selective catalytic reduction with dry low NOx burners (SCR with DLNB).	43.7 lb/hr	operating hours	BACT-PSD	
RBLC	MI-0427	FILER CITY STATION	MI	11/17/2017	EUCCT (Combined cycle CTG with unfired HRSG)	Natural gas	SCR with DLNB (Selective catalytic reduction with dry low NOx burners).	3 PPM	24-h roll.avg., except startup/shut down	BACT-PSD	
RBLC	MI-0427	FILER CITY STATION	MI	11/17/2017	EUCCT (Startup/Shutdown)	Natural gas	SCR with DLNB (Selective catalytic reduction with dry low NOx burners).	32 POUNDS	per event	BACT-PSD	
RBLC	MI-0431	INDECK NILES LLC	MI	06/26/2018	FGCTGHRSG (2 Combined Cycle CTG with HRSGs)	Natural gas	SCR with DLNB (Selective Catalytic Reduction with Dry Low NOx Burners)	2 PPM	at 15%o2; 24-hr roll avg	BACT-PSD	
RBLC	MI-0432	NEW COVERT GENERATING FACILITY	MI	07/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	Natural gas	Good combustion practices, DLN burners and SCR.	2 PPMVD	at 15%o2; each indiv. ct/hrsg train	BACT-PSD	
RBLC	MI-0432	NEW COVERT GENERATING FACILITY	MI	07/30/2018	FG-TURB/DB1-3--Startup/Shutdown Operations	Natural gas	Good combustion practices, DLN burners and SCR.	249 lb/hr	each ct/hrsg	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	SCR with DLNB (Selective catalytic reduction with dry low NOx burners).	2 PPMV	at 15%o2; 24-hr roll avg not s.s.	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	SCR with DLNB (Selective catalytic reduction with Dry Low NOx burners).	2 PPMVD	at 15%o2; 24-h roll avg; not s.s.	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	Natural gas	SCR with DLNB (Selective catalytic reduction with dry low NOx burners).	2 PPMVD	at 15%o2; 24-h roll avg; each unit;	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	MI-0435	BELLE RIVER C	MI	07/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)--Startup & Shutdown	Natural gas	SCR with DLNB (Selective catalytic reduction with dry low NOx burners).	262.4 lb/hr	each unit; op	BACT-PSD	
RBLC	MI-0439	JACKSON GENERATING STATION	MI	04/02/2019	FGLMDB1-6 (6 combined cycle natural gas fired CTG each equipped with a HRSG)	natural gas	Steam injection, good combustion practices and only combust natural gas.	25 PPM	at 15% o2; 30 day rolling avg; each unit	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	Natural gas	Dry low NOx burners and selective catalytic reduction for NOx control.	3 PPM	ppmvd@15%o2; 24-h avg; see notes	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	Natural gas	Dry low NOx burners and selective catalytic reduction for NOx control.	3 PPM	ppmvd@15%o2; 24-h roll avg; see notes	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGCTGHRSG	Natural gas	Good combustion practices, dry low NOx burners and selective catalytic reduction (SCR).	2 PPM	each; 24-hr roll.avg except start/shut	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGCTGHRSG	Natural gas	SCR with DLNB (Selective Catalytic Reduction with Dry Low NOx Burners)	2 PPM	ppmvd @15% o2. 24hr roll avg except ss	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON	MI	01/07/2021	EUCTGHRSG1	Natural gas	Dry low NOx burners and selective catalytic reduction for NOx control for each CTG/HRSG unit.	60 lb/hr	hourly; incl	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON	MI	01/07/2021	EUCTGHRSG2	Natural gas	Dry low NOx burners and selective catalytic reduction for NOx control for each CTG/HRSG unit.	60 lb/hr	hourly; incl	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	Natural gas	SCR with DLNB (Selective catalytic reduction with Dry low NOx burners)	2.5 PPM	24-hr rolling avg	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	SCR with DLNB [Selective Catalytic Reduction with Dry Low NOx Burners]	2 PPM	24-hr rolling avg	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUCTGHRSG1	Natural gas	Dry low NOx burners and selective catalytic reduction for NOx control for each CTG/HRSG unit.	3 PPM	ppmvd at 15%o2; 24-hr roll avg exc su/sd	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUCTGHRSG2	Natural gas	Dry low NOx burners and selective catalytic reduction for NOx control for each CTG/HRSG unit.	3 PPM	@15%ox; 24-hr roll avg except start/shut	BACT-PSD	
RBLC	MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MI	02/01/2023	EUCTGHRSG1	Natural gas	Selective catalytic regeneration	2 PPM	ppmvd at 15%o2; 24-hr roll avg exc su/sd	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	natural gas	SELECTIVE CATALYTIC REDUCTION AND DRY LOW NOX	2 PPMVD@ 15%O2	3 h rolling av based on one h block av	LAER	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	Natural Gas	Selective Catalytic Reduction System and Dry Low NOx	2 PPMVD@ 15%O2	3 h rolling av based on one h block av	LAER	
RBLC	NJ-0088	COGEN TECH L	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	Natural Gas	Selective Catalytic Reduction, Dry Low NOx, and use of Natural gas as Primary fuel	18.3 lb/hr	av of three o	BACT-PSD	
RBLC	OH-0365	ROLLING HILLS	OH	05/20/2015	Combustion Turbines, Scenario 1 (4, identical) (P001, P002, P004, P005)	Natural gas	dry-low NOx (DLN) burner and selective catalytic reduction (SCR)	14.7 lb/hr	without duct	BACT-PSD	
RBLC	OH-0365	ROLLING HILLS	OH	05/20/2015	Combustion Turbines, Scenario 2 (4, identical) (P001, P002, P004, P005)	Natural gas	dry-low NOx (DLN) burner and selective catalytic reduction (SCR)	15.6 lb/hr	without duct	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY	OH	08/25/2015	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	dry low NOx combustors, selective catalytic reduction (SCR)	23.5 lb/hr	with duct bu	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD E	OH	09/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Dry low NOx (DLN) burners for natural gas firing, wet injection when firing ULSD, and selective catalytic reduction (SCR) for both natural gas and ULSD.	30.51 lb/hr	with duct bu	BACT-PSD	
RBLC	OH-0370	TRUMBULL EN	OH	09/07/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	dry low NOx combustors (DLN) and selective catalytic reduction (SCR)	25.3 lb/hr	with duct bu	BACT-PSD	
RBLC	OH-0372	OREGON ENER	OH	09/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Dry low NOX combustors and selective catalytic reduction (SCR)	25.3 lb/hr	with duct bu	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	OH-0374	GUERNSEY POW	OH	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	Natural gas	dry low NOx burners and SCR	33.85 lb/hr with duct bu	BACT-PSD	
RBLC	OH-0375	LONG RIDGE EN	OH	11/07/2017	General Electric Combustion Turbine (P004)	Natural gas	dry low NOx burners and an SCR system	26.1 lb/hr except startu	BACT-PSD	
RBLC	OH-0375	LONG RIDGE EN	OH	11/07/2017	Mitsubishi Combustion Turbine (P005)	Natural gas	dry low NOx burners and an SCR system	25.1 lb/hr with duct bu	BACT-PSD	
RBLC	OH-0375	LONG RIDGE EN	OH	11/07/2017	Siemens Combustion Turbine (P006)	Natural gas	dry low NOx burners and an SCR system	27.1 lb/hr with duct bu	BACT-PSD	
RBLC	OH-0377	HARRISON POW	OH	04/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	Natural gas	dry low NOx burners and an SCR system	29.5 lb/hr with duct bu	BACT-PSD	
RBLC	OH-0377	HARRISON POW	OH	04/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	Natural gas	dry low NOx burners and an SCR system	28 lb/hr with duct bu	BACT-PSD	
RBLC	OK-0169	PSO COMANCH	OK	10/08/2015	COMBINED CYCLE COMBUSTION TURBINE	NATURAL	Use of Dry Low NOx Burners	0.15 lb/MMBtu 30-day rolli	BART	
RBLC	PA-0306	TENASKA PA PARTNERS/WE STMORELAND GEN FAC	PA	02/12/2016	Large combustion turbine	Natural Gas	SCR, DLN, and good combustion practice	2 PPMVD@ 15% O2	LAER	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two Combine Cycle Combustion Turbine with Duct Burner	Natural Gas	SCR, Dry Lo-NOx combustor, good combustion practices and low sulfur fuels	2 PPVDM @ 15 O2	LAER	
RBLC	PA-0309	LACKAWANN A ENERGY CTR/JESSUP	PA	12/23/2015	Combustion turbine with duct burner	Natural gas	Dry low-NOx burners, SCR, exclusive natural gas	2 PPMVDV @15% O2	LAER	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG with duct burner NG only	Natural Gas	Dry Low NOx combustion technology, SCR at all steady state operating loads, good combustion and operating practices	2 PPMVDV @ 15% O2	LAER	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Combustion Turbine With Duct Burner	Natural Gas	DLN burner, SCR, good engineering practice	2 PPMVDV @ 15% O2	LAER	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Combustion Turbine without Duct Burner		DLN burners, SCR, good engineering practice	2 PPMVDV @15% O2	LAER	
RBLC	*PA-0315	HILLTOP ENER	PA	04/12/2017	Flue Gas Heater		good combustion and operating practices	0.011 LB mmbtu		
RBLC	*PA-0315	HILLTOP ENERGY CENTER, LLC	PA	04/12/2017	Combustion Turbine without Duct Burner	Natural Gas	No control listed.	2 PPMVDV corrected to 15% o2	LAER	
RBLC	*PA-0316	RENOVO ENERGY CENTER, LLC	PA	01/26/2018	Combustion Turbine Firing NG	Natural Gas	SCR	2 PPMVDV corrected to 15% o2	LAER	
RBLC	*PA-0319	RENAISSANCE ENERGY CENTER	PA	08/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	Natural Gas	SCR	2 PPMVDV @15% o2	LAER	
RBLC	PA-0333	ESC TIOGA COUNTY POWER LLC/ELEC PWR GEN FAC	PA	08/20/2019	COMBUSTION TURBINE/DUCT BURNER	Natural Gas	SCR, Catalytic Oxidizer	2 PPMVD @ 15% o2 / 1 hr	LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE #2 (ULSD)	ULSD	selective catalytic reduction (SCR) system, oxidation catalyst.	4 PPMVD @ 15% o2 / 1 hr	LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE #1 (ULSD)	ULSD	selective catalytic reduction (SCR) system, oxidation catalyst.	4 PPMVD @ 15% o2 / 1 hr	LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	Natural Gas	SCR, CATALYTIC OXIDIZER	2 PPMVD @ 15% o2 / 1 hr	LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	Natural Gas	SCR, Catalytic Oxidizer	2 PPMVD @ 15% o2 / 1 hr	LAER	
RBLC	TN-0162	JOHNSONVILL E COGENERATI ON	TN	04/19/2016	Natural Gas-Fired Combustion Turbine with HRSG	Natural Gas	Good combustion design and practices, selective catalytic reduction (SCR)	2 PPMVD @ 15% O2 30 unit-operating-day moving average	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	*TN-0164	TVA - JOHNSONVILLE COGENERATION	TN	02/01/2018	Dual-fuel CT and HRSG with duct burner	Natural Gas	SCR, good combustion design & practices	2 PPMVD @ 15% O2	30-day avg when burning natural gas	BACT-PSD	
RBLC	TX-0730	COLORADO BEND ENERGY CENTER	TX	04/01/2015	Combined-cycle gas turbine electric generating facility	natural gas	SCR and oxidation catalyst	2 PPMVD @ 15% O2	24-hr average	BACT-PSD	
RBLC	TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TX	06/18/2015	Combined Cycle Turbines (>25 MW) natural gas	natural gas	Selective Catalytic Reduction	2 PPM	rolling 24-hr average	LAER	
RBLC	TX-0767	LON C. HILL POWER STATION	TX	10/02/2015	Combined Cycle Turbines (>25 MW)	natural gas	Selective Catalytic Reduction	2 PPM	rolling 24-hr average	BACT-PSD	
RBLC	TX-0773	FGE EAGLE PINES PROJECT	TX	11/04/2015	Combined Cycle Turbines (>25 MW)	natural gas	Selective Catalytic Reduction	2 PPM	24-hr average	BACT-PSD	
RBLC	TX-0788	NECHES STATION	TX	03/24/2016	Combined Cycle & Cogeneration	natural gas	Selective Catalytic Reduction	2 PPM		BACT-PSD	
RBLC	TX-0789	DECORDOVA STEAM ELECTRIC STATION	TX	03/08/2016	Combined Cycle & Cogeneration	natural gas	Selective Catalytic Reduction	2 PPM		BACT-PSD	
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Refrigeration Compression Turbines	natural gas	Dry low NOx burners and good combustion practices	9 PPM	rolling 24-hr average	BACT-PSD	
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Simple Cycle Electrical Generation Gas Turbines 15.210	natural gas	SELECTIVE CATALYTIC REDUCTION	5 PPM	rolling 24-hr average	BACT-PSD	
RBLC	TX-0819	GAINES COUNTY POWER PLANT	TX	04/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	NATURAL GAS	Selective Catalytic Reduction (SCR) and Dry Low NOx burners	2 PPMVD	15% O2 3-h avg	BACT-PSD	
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	Combined Cycle Turbine	NATURAL GAS	SCR and Dry Low NOx burners	2 PPMVD	15% O2 1-hour average	LAER	
RBLC	TX-0834	MONTGOMERY	TX	03/30/2018	COMBINED CYCLE TURBINE MSS REDUCED LOAD	NATURAL	minimizing duration of startup / shutdown events, engaging the pollution control equipment as soon as practicable (based on vendor recommendations and guarantees), and meeting the emissions limits on the MAERT	170 lb/hr		LAER	
RBLC	TX-0878	LNG EXPORT TERMINAL	TX	09/15/2022	Refrigeration Compression Turbines	NATURAL GAS	Dry low NOx burners and good combustion practices.	No limit listed.		BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	Simple Cycle Turbine	natural gas	Dry Low NOx Burners and SCR	2.5 PPMVD		BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	natural gas	SCR	2 PPMVD	1 hr avg	N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	natural gas	dry, low NOx burners and selective catalytic reduction	2 PPMVD @ 15% O2	1 h av	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combustion Turbine - Option 2 - Normal Operation	Natural Gas	DRY, LOW NOx BURNERS & SCR	2 PPMVD @ 15% O2	1 h av	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Tuning & Water Washing	natural gas	dry, low NOx burners and SCR	638 LB/TURBI	24 hr av	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Startup and Shutdown	natural gas	Dry, low NOx burners and SCR	273 LB/TURBI	cold start 60	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combustion Turbine - Tuning & Water Washing	Natural Gas	dry, low NOx burners and SCR	564 LB/TURBI	24 hr av	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combustion Turbine - Startup & Shutdown	Natural Gas	dry, low NOx burners and SCR	95 LB/TURBI	cold start 55	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	natural gas	Controlled by dry, low NOx burners and selective catalytic reduction (SCR).	2 PPMVD 15% O2	1 hr avg	BACT-PSD	
RBLC	VA-0332	CHICKAHOMIN	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems Combustion	natural gas	dry, low NOx burners and selective catalytic reduction	703 LB/TURBI	24 hr total	BACT-PSD	
RBLC	VA-0332	CHICKAHOMIN	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	natural gas	dry, low NOx burners and selective catalytic reduction	60 LB/TURBI	cold start-42	BACT-PSD	
RBLC	VA-0334	DOMINION ENERGY	VA	12/01/2020	COMBUSTION TURBINE GENERATORS, (3) with Alternate Operating Scenario - Turbine Tuning	natural gas	Dry, low NOx burners and selective catalytic reduction (SCR) with a NOx performance of 2.0 ppmvd at 15% O2.	604 LBS	calendar day	BACT-PSD	
RBLC	VA-0334	DOMINION ENERGY	VA	12/01/2020	COMBUSTION TURBINE GENERATORS, (3) with Alternate Operating Scenario - Turbine Blade Water Washing	Natural Gas	Dry, low NOx burners and selective catalytic reduction (SCR) with a NOx performance of 2.0 ppmvd at 15% O2.	604 LBS	calendar day	BACT-PSD	
RBLC	*VA-0335	PANDA STONEWALL LLC	VA	12/18/2020	Combustion Turbines, Two (2) and HRSG Duct Burners	Natural Gas	Selective Catalytic Reduction (SCR), with ammonia injection and dry low NOx combustion.	2 PPMVD @ 15% O2	w & w/o duct burning	LAER	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	Natural Gas	Selective Catalytic Reduction (SCR), low-NOx burners, Water injection when firing diesel fuel oil.	2 PPM AT 15% O2	24-hr rolling avg., natural gas	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	Natural Gas	No control listed.	335 LB/START		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	Natural Gas	No control listed.	860 LB/START		BACT-PSD	
RBLC	WI-0306	WPL-RIVERSIDE ENERGY CENTER	WI	02/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase I Commissioning	Natural Gas	No control listed.	110 PPMVD, 15% OXYGEN	avg. any 24-hr operational period	BACT-PSD	
RBLC	WI-0306	WPL-RIVERSIDE ENERGY CENTER	WI	02/28/2020	Natural Gas Fired Combustion Turbine (P20, P21)- Startup operation during Phase I Commissioning	Natural Gas	No control listed.	110 PPMVD, 15% OXYGEN	avg. any 24-hr operational period	BACT-PSD	
RBLC	WI-0306	WPL-RIVERSIDE ENERGY CENTER	WI	02/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase II Commissioning	Natural Gas	No control listed.	55 PPMVD, 15% OXYGEN	avg. any 24-hr operational period	BACT-PSD	
RBLC	WI-0306	WPL-RIVERSIDE ENERGY CENTER	WI	02/28/2020	Natural Gas Fired Combustion Turbine (P20, P21)- Startup operation during Phase II Commissioning	Natural Gas	No control listed.	55 PPMVD, 15% OXYGEN	avg. any 24-hr operational period	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Combustion Turbine; S01/P01/C01a (SCR)/C01b (oxidation catalyst)	natural gas-fired	Except during start-up and shutdown, BACT has been determined to be: □ (a) A selective catalytic reduction (SCR) system shall be used to control emissions from P01 when P01 is in operation. □ (b) P01 shall be equipped with low-NOx burners. □ (c) Water injection shall be used when firing diesel fuel oil.	2 PPM	24-hour rolling ave., firing natural gas	BACT-PSD	
RBLC	*WV-0029	HARRISON COUNTY	WV	03/27/2018	GE 7HA.02 Turbine	Natural Gas	Dry-Low NOx Burners, SCR	32.9 lb/hr	1-hour average	BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY	WV	09/18/2018	GE 7HA.01 Turbine	Natural Gas	Dry-Low NOx Burners, SCR	23.2 lb/hr		BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	Dry Low NOx Combustion w/ SCR	2 PPMVD @ 15% O2	3-hour rolling average	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	Dry Low NOx Combustor with SCR	2 PPMVD @ 15% O2	3-hour rolling average	BACT-PSD	
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	ULSD	SCR	5 PPMVD @15% O2	1 hr block	LAER	
RBLC	CT-0158	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	ULSD	SCR	5 PPMVD @15% O2	1 hr block	LAER	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	ULSD w/o Duct Firing	ULSD	SCR	4 PPMVD @15% O2	1 hour block	LAER	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Combined Cycle Combustion Turbine without Duct Burner Firing ULSD	ULSD	Selective Catalytic Reduction (SCR) and use of natural gas a clean burning fuel	4 PPMVD @ 15% O2	3 h rolling av based on one h block	LAER	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	ULSD	Selective catalytic Reduction Systems and Dry Low NOx	4 PPMVD @ 15% O2	3 h rolling av based on one h block av	LAER	
RBLC	NJ-0088	COGEN TECH LLC	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	ULSD	Selective Catalytic Reduction and Dry Low NOx; use of clean burning fuels.	40.4 lb/hr	av of three o	LAER	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two combined cycle combustion turbines ULSD fired with duct burner NG fired	ULSD and NG	SCR and good combustion practices with ULSD fuels	6 PPMVD @ 15% O2		LAER	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG without duct burner ULSD	ULSD	Water/steam injection, SCR, good combustion practices	6 PPMVD @ 15% O2		LAER	
SCAQMD	581392	Walnut Creek Energy, LLC	CA	1-Feb-19	Simple Cycle natural gas fired turbine with Intercooler and water injection. Peaker Unit. 891.7 MMBTU/hr Max heat input; 100.1 MW Net Power Output	Natural Gas	OxyCat and SCR, Ammonia Injection Grid with aqueous ammonia stored in a 16,000 gallon tank	2.5 ppmv	1-hour with 15% o2 correction	BACT/LAER	Mass limits are available too.
SCAQMD	579955	Pasadena City, DWP	CA	8-Mar-18	Combined Cycle with SCR, Oxidation catalyst, water injection and Steam Turbine (ST-5), Shinn Nippon, model C8-R11-RX	Natural Gas	Haldor Topsoe (SCR) & Emerachem (Oxidation Catalyst); aqueous ammonia injection grid	2 ppmv	1-hour with 15% o2 correction	BACT/LAER	Mass limits are available too.

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
BAAQMD								No NOx limits given for BACT.			
CARB/SC AQMD	81391	Virginia Electric and Power Company	VA	1-Feb-19	Combined Cycle with Duct Burner HRSG, SCR, Oxidation catalyst and common Steam Turbine, Nominal 1,280MW electrical power generating facility consisting of three gas turbine generators each 299.6MW serving common steam turbine with 539MW generator.		SCR with aqueous ammonia injection grid for NOx control and Oxidation Catalyst for CO and VOC control.	2 ppmv	1-hour with 15% O ₂ correction	BACT/LAER	NOx limit is for w & w/o duct burner
CARB/SC AQMD	595485	LA City, Sanitation Bureau (HTP)	CA	1-Feb-19	Combined Cycle (No. 2) with SCR, Oxidation catalyst and Steam Turbine, equipped with a digester gas clean-up system; Generator serving turbine is 11.35MW with two (2) common shared steam turbine generators 7.8MW and 1MW. Three Duct Burners each 14MMBtu/hr.	Digester Gas	SCR catalyst with three modules of homogeneous honeycomb-type mixed metal catalyst each 11'-8"L x 6'-10"W x 3'-11"H / Oxidation Catalyst with 30 metal foil monoliths of platinum group metals, total layer 12'-3"L x 0'-4"W x 13'-4"H with total weight of 3060 lbs. Aqueous ammonia injection grid.	18.8 ppmv	1-hour with 15% O ₂ correction	BACT/LAER	Mass limits are available too.
CARB/SC AQMD	492565	Signal Hill Petroleum, Inc.	CA	1-Feb-19	Simple Cycle with SCR and Oxidation catalyst, 76.20 MMBtu/hr	Produced gas mixed with natural gas	High temperature zeolite SCR with ammonia injection; SCR: 400 cu.ft., 16'W x 12'H x 34'L and OxiCat: 28 cu.ft. of catalyst volume.	5 ppmv	1-hour with 15% O ₂ correction	BACT/LAER	
CARB/SC AQMD	589228	Sunshine Gas Producers, LLC	CA	1-Feb-19	Generator serving gas turbine is 4.9MW, Simple Cycle Turbine with recuperation, fueled on treated 100% LFG from Sunshine Canyon Landfill, Sunshine Gas Producers utilizes this LFG fired turbine to generate electricity to sell back to electric company. The unit does not recover exhaust waste heat. This is one of five identical units at this location. There are no add-on controls.	LFG	None	12.5 ppmv	1-hour with 15% O ₂ correction	BACT/LAER	
CARB/SC AQMD	601928	City of Riverside Public Utilities Dept	CA	5-Feb-21	Simple Cycle CT with intercooler and water injection, power output is 49.8 MW	Natural Gas	SCR and Oxidation Catalyst, ammonia injection grid with aqueous ammonia	2.3 ppmv	1-hour with 15% O ₂ correction	BACT/LAER	
Permit Application	N/A	Greensville County Power Station	VA	11-Nov-14	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Dry low-NOx MHPS M501J burners and selective catalytic reduction	2.0 ppmvd	1-hour with 15% O ₂ correction	BACT	Same emission limit, with or without duct burning
Permit Application	N/A	Greensville County Power Station	VA	11-Nov-14	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	ULSD or ULSK	Steam or water injection and selective catalytic reduction	6.0 ppmvd	1-hour with 15% O ₂ correction	BACT	Same emission limit, with or without duct burning
Permit Application	N/A	Greensville County Power Station	VA	26-Aug-15	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Dry low-NOx MHPS M501J burners and selective catalytic reduction	2.0 ppmvd	1-hour with 15% O ₂ correction	BACT	Same emission limit, with or without duct burning
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas or ULSD	Dry low NOx burners (firing natural gas)	2.0 ppmvd	4-hr with 15% O ₂ correction	BACT	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas or ULSD	Water Injection (firing fuel oil)	5.0 ppmvd	4-hr with 15% O ₂ correction	BACT	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas or ULSD	Clean/Low-emitting fuels	2 (natural gas) or 5 (distillate oil) ppmvd	4-hr with 15% O ₂ correction	BACT	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas or ULSD	SCR	2 (natural gas) or 5 (distillate oil) ppmvd	4-hr with 15% O ₂ correction	BACT	
Permit Application	N/A	Western Farmers Electric Cooperative	OK	2-Dec-24	Simple Cycle CTs (only CTs and cooling tower)	Natural gas	Water Injection	25.0 ppmvd	4-hr with 15% O ₂ correction	BACT	

End of table

Appendix C-1f
BACT Analysis Database Search Results: Combustion Turbines, VOC
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	Natural Gas	Oxidation catalyst and good combustion practices	0.0022 lb/MMBtu 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	Natural Gas	Oxidation catalyst and good combustion control practices	0.0022 lb/MMBtu 3-hour average	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Four Combined Cycle Gas-Fired Turbines	Natural Gas	Oxidation catalyst and good combustion practices	2 PPMV @ 15% O2 3-hours	BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	Two 744 MW Combined Cycle Units	Natural Gas	Oxidation Catalyst	13.6 lb/hr 3 hour avg	BACT-PSD	
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	Oxidation Catalyst	1 PPMVD @15% O2	BACT-PSD	
RBLC	CT-0158	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	Oxidation Catalyst	1 PPMVD @15% O2	BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/o Duct Firing	Natural Gas	Oxidation Catalyst	0.7 PPMVD @15% O2	BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/Duct Firing	Natural Gas	Oxidation Catalyst	1.6 PPMVD @15% O2	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Combined-cycle electric generating unit	Natural gas	Complete combustion minimizes VOC	1 PPMVD gas @15%O2 operation	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	2-on-1 combined cycle unit (GE 7HA)	Natural gas	Clean fuels	1 PPMVD for natural @15% O2 gas operation	BACT-PSD	
RBLC	FL-0364	SEMINOLE GENERATING STATION	FL	03/21/2018	2-on-1 natural gas combined-cycle unit (GE 7HA.02)	Natural gas	Oxidation catalyst	1 PPMVD without @15% O2 duct burner firing	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Combined-Cycle Combustion Turbines	Natural Gas	Oxidation catalyst and good combustion practices.	1 PPMV, ADJ. TO 15% O2 rolling 3-operating hour	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGB	Natural Gas	catalytic oxidation	0.0013 POUNDS PER MMBTU	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGA SU/SD	Natural gas	No control listed.	29.3 TONS PER YEAR for duration of combined su/sd events	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGB SU/SD		No control listed.	18.8 TONS PER YEAR for duration of combined su/sd events	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGA	Natural Gas	Oxidation catalyst	0.0015 POUNDS PER MMBTU	BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Lube Oil Demister Vents		good engineering design and operating practices	No limite listed.	BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Combustion Turbines (6A and 6B)	Natural Gas	Oxidation Catalyst and Good Combustion Practices	1 PPMVD 3-hour @15% O2 average w/o db excl. su/sd	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	L3804	Refinery Fuel Gas	Proper combustion and operation	0.0021 lb/MMBtu 3-hour rolling average	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Combined Cycle Unit 1A	Natural Gas	Catalytic oxidation and good combustion practices for normal operations, and good combustion practices for startup/shutdown operations.	61.27 lb/hr hourly maximum	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Combined Cycle Unit 1B	Natural Gas	Catalytic oxidation and good combustion practices during normal operations, and good combustion practices during startup/shutdown operations.	61.27 lb/hr hourly maximum	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	Natural Gas	Catalytic Oxidation, Proper Equipment Design and Good Combustion Practices.	1.1 PPMV 3 hour average	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Cogeneration Units	Natural Gas	Good combustion practices and catalytic oxidation	4 PPMVD	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	Natural Gas	Catalytic oxidation and good combustion practices.	1 PPMVD	3 1-hr test average	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Combined Cycle Gas Turbine Startup and Shutdown	Natural Gas	Good combustion practices.	520 lb/hr		BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - COLD STARTUP	NATURAL GAS	OXIDATION CATALYST AND GOOD COMBUSTION PRACTICES	301 LB/EVENT	cold startup	LAER	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES	NATURAL GAS	OXIDATION CATALYST AND GOOD COMBUSTION PRACTICES	1 PPMVD @ 15% O2	3-hr block avg. w/out duct firing	LAER	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - WARM STARTUP	NATURAL GAS	OXIDATION CATALYST AND GOOD COMBUSTION PRACTICES	258 LB/EVENT	warm startup	LAER	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - HOT STARTUP	NATURAL GAS	OXIDATION CATALYST AND GOOD COMBUSTION PRACTICES	207 LB/EVENT	hot startup	LAER	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES - SHUTDOWN	NATURAL GAS	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	63 LB/EVENT	shutdown	LAER	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	Natural gas	Oxidation Catalyst Technology and Good Combustion Practices	4 PPM	test protocol will specify	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	Natural gas	Oxidation catalyst technology and good combustion practices.	4 PPM AT 15% O2	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0432	NEW COVERT GENERATING FACILITY	MI	07/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	Natural gas	An oxidation catalyst and good combustion practices.	1 PPMVD	hourly; each ct/hrsg train	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Oxidation catalyst technology and good combustion practices.	4 PPMVD	at 15%o2; not incl. startup/shutdown	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Oxidation catalyst technology and good combustion practices.	4 PPMVD	at 15%o2; hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	Natural gas	Oxidation catalyst technology and good combustion practices.	0.0026 lb/MMBtu	each unit; hourly except s.s.	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	Natural gas	An oxidation catalyst for VOC control and good combustion practices.	3 PPM	ppmvd@15%o2; hourly; see notes	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	Natural gas	An oxidation catalyst for VOC control for each CTG/HRSG unit, good combustion practices.	3 PPM	ppmvd@15%o2; hourly exc.start/shut; note	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGCTGHRSG	Natural gas	Oxidation catalyst and good combustion practices.	0.004 lb/MMBtu	hourly; not startup/shutdown;each unit	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGCTGHRSG	Natural gas	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	4 PPM	ppmvd@15%o2, hourly; each	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUCTGHRSG1	Natural gas	An oxidation catalyst for VOC control for each CTG/HRSG unit, good combustion practices.	3 PPM	hourly except startup shutdown	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUCTGHRSG2	Natural gas	An oxidation catalyst for VOC control for each CTG/HRSG unit, good combustion practices.	3 PPM	hourly; except during startup/shutdown	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	Natural gas	Oxidation catalyst technology and good combustion practices.	2 PPM	hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Oxidation Catalyst Technology and Good Combustion Practices	2 PPM	hourly	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUCTGHRSG1	Natural gas	An oxidation catalyst for VOC control for each CTG/HRSG unit, good combustion practices.	3 PPM	ppmvd at 15%o2; hourly exc su/sd	BACT-PSD	

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RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUCTGHRSG2	Natural gas	An oxidation catalyst for VOC control for each CTG/HRSG unit, good combustion practices.	3 PPM	ppmvd at 15%o2; hourly exc su/sd. cc mod	BACT-PSD	
RBLC	MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MI	02/01/2023	EUCTGHRSG1	Natural gas	Oxidation catalyst	2.4 PPM	ppmvd at 15%o2; hourly exc su/sd	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	natural gas	Oxidation Catalyst and good combustion practices	2 PPMVD @15%O2	av of three one h stack tests every 5 yr	LAER	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	Natural Gas	Oxidation catalyst and good combustion practices	1 PPMVD @15%O2	av of three one h stack tests every 5 yr	LAER	
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	Natural Gas	Add on Oxidation Catalyst and use of Natural Gas as primary fuel for pollution prevention	3.2 lb/hr	av of three one h stack tests every 5 yr	OTHER CASE-BY-CASE	
RBLC	OH-0365	ROLLING HILLS GENERATING, LLC	OH	05/20/2015	Combustion Turbines, Scenario 1 (4, identical) (P001, P002, P004, P005)	Natural gas	good combustion practices along with clean fuels	611.38 T/YR	per rolling 12 month period. see notes.	BACT-PSD	
RBLC	OH-0365	ROLLING HILLS GENERATING, LLC	OH	05/20/2015	Combustion Turbines, Scenario 2 (4, identical) (P001, P002, P004, P005)	Natural gas	good combustion practices along with clean fuels	No limite listed.		BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Good combustion controls and oxidation catalyst	8.2 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Good combustion controls and oxidation catalyst	10.64 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Good combustion controls and oxidation catalyst	8.8 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	oxidation catalyst and good combustion control	8.8 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	Natural gas	oxidation catalyst and good combustion practices as recommended by the manufacturer	11.73 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	General Electric Combustion Turbine (P004)	Natural gas	Oxidation catalyst and good combustion practices as recommended by the manufacturer.	4.54 lb/hr	except startup and shutdown. see notes	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Mitsubishi Combustion Turbine (P005)	Natural gas	oxidation catalyst and shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer	8.8 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Siemens Combustion Turbine (P006)	Natural gas	oxidation catalyst and shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer	9.5 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	Natural gas	Good combustion practices and oxidation catalyst	4.36 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	Natural gas	Good combustion practices and oxidation catalyst	9.8 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	PA-0306	TENASKA PA PARTNERS/WE STMORELAND GEN FAC	PA	02/12/2016	Large combustion turbine	Natural Gas	Ox Cat and good combustion practices	2.4 PPMVD @15% O2		LAER	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two combined cycle turbines with out duct burner	Natural Gas	Oxidation catalyst, good combustion practices and low sulfur fuels	1.5 PPMVD @ 15% O2		LAER	

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RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two Combine Cycle Combustion Turbine with Duct Burner	Natural Gas	Oxidation catalyst, good combustion practices and low sulfur fuels	1.9 PPM DV @ 15% O2	LAER	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Combustion turbine with duct burner	Natural gas	Oxidation catalyst, combustion controls, exclusive natural gas	1.5 PPM DV @ 15% O2	LAER	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Combustion turbine without duct burner		Oxidation catalyst, combustion controls, exclusive natural gas	1 PPM DV @ 15% O2	LAER	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG with duct burner NG only	Natural Gas	Oxidation catalyst and good combustion practices	1.5 PPM DV @ 15% O2	LAER	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG without duct burner NG only	Natural gas	No control listed.	1 PPM DV @ 15% O2	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Combustion Turbine With Duct Burner	Natural Gas	Oxidation catalyst and good engineering practice	1.5 PPM DV @ 15% O2	LAER	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Combustion Turbine without Duct Burner		Oxidation catalyst, and good engineering practice	1.5 lb/MMBtu	LAER	
RBLC	*PA-0315	HILLTOP ENERGY CENTER, LLC	PA	04/12/2017	Combustion Turbine without Duct Burner	Natural Gas	No control listed.	1 PPM DV corrected to 15% o2	LAER	
RBLC	*PA-0315	HILLTOP ENERGY CENTER, LLC	PA	04/12/2017	Combustion Turbine With Duct Burner	Natural Gas	No control listed.	2 PPM DV corrected to 15% o2	LAER	
RBLC	*PA-0316	RENOVO ENERGY CENTER, LLC	PA	01/26/2018	Combustion Turbine Firing NG	Natural Gas	No control listed.	1 PPM DV corrected to 15% o2	LAER	
RBLC	*PA-0319	RENAISSANCE ENERGY CENTER	PA	08/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	Natural Gas	Oxidation Catalyst	1 PPM DV @15% o2	LAER	
RBLC	*PA-0319	RENAISSANCE ENERGY CENTER	PA	08/27/2018	COMBUSTION TURBINE UNIT with DUCT BURNERS UNIT	Natural Gas	No control listed.	1.4 PPM DV @15% o2	LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE #2 (ULSD)	ULSD	selective catalytic reduction (SCR) system, oxidation catalyst.	2 PPM DV @ 15% o2 / 1 hr	LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE #1 (ULSD)	ULSD	SCR, Catalytic Oxidizer	2 PPM DV @ 15% o2 / 1 hr	LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	Natural Gas	SCR, CATALYTIC OXIDIZER	1.6 PPM DV @ 15% o2 / 1 hr	LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	Natural Gas	SCR, Catalytic Oxidizer	1.6 PPM DV @ 15% o2 / 1 hr	LAER	
RBLC	TX-0730	COLORADO BEND ENERGY CENTER	TX	04/01/2015	Combined-cycle gas turbine electric generating facility	natural gas	SCR and oxidation catalyst	4 PPM DV 3-hr average @ 15% O2	BACT-PSD	
RBLC	TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TX	06/18/2015	Combined Cycle Turbines (>25 MW) @ natural gas	natural gas	Oxidation catalyst	2 PPM	LAER	
RBLC	TX-0756	CCI CORPUS CHRISTI CONDENSATE SPLITTER FACILITY	TX	06/19/2015	Boilers, BL-1 and BL-2	natural gas	Good combustion practices will limit VOC emissions to 0.005 lb per 1000 scf. Fuel flow will be measured.	0.005 LB/100 SCF each boiler	BACT-PSD	
RBLC	TX-0767	LON C. HILL POWER STATION	TX	10/02/2015	Combined Cycle Turbines (>25 MW)	natural gas	oxidation catalyst	2 PPM	BACT-PSD	
RBLC	TX-0773	FGE EAGLE PINES PROJECT	TX	11/04/2015	Combined Cycle Turbines (>25 MW)	natural gas	Oxidation Catalyst	2 PPM	BACT-PSD	
RBLC	TX-0788	NECHES STATION	TX	03/24/2016	Combined Cycle & Cogeneration	natural gas	OXIDATION CATALYST	2 PPM	BACT-PSD	
RBLC	TX-0789	DECORDOVA STEAM ELECTRIC STATION	TX	03/08/2016	Combined Cycle & Cogeneration	natural gas	OXIDATION CATALYST	2 PPM	BACT-PSD	
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Refrigeration Compression Turbines	natural gas	Dry low NOx burners and good combustion practices	2 PPM 3-hr avg	BACT-PSD	
RBLC	TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	TX	02/17/2016	Simple Cycle Electrical Generation Gas Turbines 15.210	natural gas	OXIDATION CATALYST	2 PPM 3-hr average	BACT-PSD	

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RBLC	TX-0817	CHOCOLATE BAYOU STEAM GENERATING (CBSG) STATION	TX	02/17/2017	Combined Cycle Cogeneration	NATURAL GAS	OXIDATION CATALYST	1 PPM DV		BACT-PSD	
RBLC	TX-0819	GAINES COUNTY POWER PLANT	TX	04/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	NATURAL GAS	Oxidation catalyst and good combustion practices	3.5 PPM VD	15% O ₂	BACT-PSD	
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	Combined Cycle Turbine	NATURAL GAS	Oxidation catalyst	2 PPM VD	15% O ₂ 3 hour average	LAER	
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	COMBINED CYCLE TURBINE MSS REDUCED LOAD	NATURAL GAS	minimizing duration of startup / shutdown events, engaging the pollution control equipment as soon as practicable (based on vendor recommendations and guarantees), and meeting the emissions limits on the MAERT	2000 lb/hr		LAER	
RBLC	TX-0878	LNG EXPORT TERMINAL	TX	09/15/2022	Refrigeration Compression Turbines	NATURAL GAS	good combustion practices.	2 PPM	3-hr avg	BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	Simple Cycle Turbine	natural gas	Use of Natural gas, good combustion practices, and oxidation catalyst	2 PPM VD		BACT-PSD	
RBLC	TX-0915	UNIT 5	TX	03/17/2021	COMBINED CYCLE TURBINE	NATURAL GAS	OXIDATION CATALYST	1 PPM VD	3-hr rolling	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	Combined Cycle Turbines	NATURAL GAS	Oxidation Catalyst and good combustion practices	2 PPM VD	15% O ₂ 3-hr average	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	LUBE OIL VENTS		Mist eliminator	No limits listed.		BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	TURBINE MSS		On-line turbine washing, turbine filter changeouts, catalyst handling, fuel venting, CEMS calibration, fugitive/small equipment maintenance Good air pollution control practices and safe operating practices.	No limits listed.		BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	natural gas	Oxidation Catalyst and good combustion practices	1.4 PPM VD		N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	natural gas	Oxidation catalyst and good combustion practices	0.7 PPM VD @ 15% O ₂	3 hr av/without db	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combustion Turbine - Option 2 - Normal Operation	Natural Gas	Oxidation catalyst and good combustion practice	1 PPM VD @ 15% O ₂	3 h av/without db	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Startup and Shutdown	natural gas	Oxidation catalyst and good combustion practices	60 LB/TURBINE/EVENT NT	cold start 60 min or less	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combustion Turbine - Startup & Shutdown	Natural Gas	Oxidation catalyst and good combustion practices	37 LB/TURBINE/EVENT NT	cold start 55 min or less	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	natural gas	Controlled by an oxidation catalyst and good combustion practices (e.g. controlled fuel/air mixing, adequate temperature, and gas residence time)	0.7 PPM VD @ 15% O ₂	3 hr avg	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	natural gas	Oxidation catalyst and good combustion practices	216 LB/TURBINE/EVENT NT	cold start 42 min or less	BACT-PSD	
RBLC	*VA-0335	PANDA STONEWALL LLC	VA	12/18/2020	Combustion Turbines, Two (2) and HRSG Duct Burners	Natural Gas	Catalytic Oxidizer	1.5 PPM VD AT 15% O ₂	normal operations w duct burner/w/o db	LAER	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	Natural Gas	Oxidation Catalyst, good combustion control	2.7 PPM AT 15% O ₂	168-hr avg., nat. gas, duct firing	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	Natural Gas	No control listed.	950 LB/START-UP		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	Natural Gas	No control listed.	2951 LB/START-UP		BACT-PSD	
RBLC	WI-0306	WPL-RIVERSIDE ENERGY CENTER	WI	02/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase I Commissioning	Natural Gas	No control listed.	No limits SEE listed. NOTES		BACT-PSD	
RBLC	WI-0306	WPL-RIVERSIDE ENERGY CENTER	WI	02/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase II Commissioning	Natural Gas	No control listed.	No limits (SEE listed. NOTES)		BACT-PSD	

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RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Combustion Turbine; S01/P01/C01a (SCR)/C01b (oxidation catalyst)	natural gas-fired	Except during start-up and shutdown, BACT has been determined to be:□ (a) An oxidation catalyst shall be used to control emissions from P01 while P01 is in operation.□ (b) The permittee shall use good combustion control according to the manufacturerâ€™s recommendations.	2.7 PPM	168-hour rolling, natural gas w/ duct	BACT-PSD	
RBLC	*WV-0029	HARRISON COUNTY POWER PLANT	WV	03/27/2018	GE 7HA.02 Turbine	Natural Gas	Oxidation Catalyst, Good Combustion Practices	11.4 lb/hr		BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY POWER PLANT	WV	09/18/2018	GE 7HA.01 Turbine	Natural Gas/Ethane	Oxidation Catalyst, Good Combustion Practices	8.1 lb/hr		BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	good combustion practices and oxidation catalyst	1 PPMDV @ 15% O2	avg of 3 1-hr test runs (w/o duct firing)	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	good combustion practices and oxidation catalyst	1 PPMDV @ 15% O2	avg of 3 1-hr test runs (w/o duct firing)	BACT-PSD	
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	ULSD	Oxidation Catalyst	2 PPMVD @15% O2		BACT-PSD	
RBLC	CT-0158	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	ULSD	Oxidation Catalyst	2 PPMVD @15% O2		BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	ULSD w/o Duct Firing	ULSD	Oxidation Catalyst	2 PPMVD @15% O2		BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Combined Cycle Combustion Turbine without Duct Burner Firing ULSD	ULSD	Oxidation Catalyst and good combustion practices	2 PPMVD		LAER	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	ULSD	oxidation catalyst and good combustion practices	2 PPMVD @15%O2	av of three one h stack tests every 5 yr	LAER	
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	ULSD	Oxidation Catalyst and Clean burning fuel - ULSD	7 lb/hr	av of three one h stack tests every 5 yr	OTHER CASE-BY-CASE	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two combined cycle combustion turbines ULSD fired with duct burner NG fired	ULSD and NG	Oxidation catalyst, good combustion practices and low sulfur fuels	1.9 PPMDV @ 15% O2		LAER	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG without duct burner ULSD	ULSD	Oxidation catalyst, water/steam injection, good combustion practices	2 PPMDV @ 15% O2		LAER	
SCAQMD	581392	Walnut Creek Energy, LLC	CA	1-Feb-19	Simple Cycle natural gas fired turbine with Intercooler and water injection. Peaker Unit. 891.7 MMBTU/hr Max heat input; 100.1 MW Net Power Output	Natural Gas	OxyCat and SCR, Ammonia Injection Grid with aqueous ammonia stored in a 16,000 gallon tank	2 ppmv	1-hour with 15% o2 correction	BACT/LAER	Mass limits are available too.
SCAQMD	579955	Pasadena City, DWP	CA	8-Mar-18	Combined Cycle with SCR, Oxidation catalyst, water injection and Steam Turbine (ST-5), Shinn Nippon, model C8-R11-RX	Natural Gas	Haldor Topsoe (SCR) & Emerachem (Oxidation Catalyst); aqueous ammonia injection grid	2 ppmv	1-hour with 15% o2 correction	BACT/LAER	Mass limits are available too.
BAAQMD								No VOC limits given for BACT.			
CARB/SCAQMD	81391	Virginia Electric and Power Company	VA	1-Feb-19	Combined Cycle with Duct Burner HRSG, SCR, Oxidation catalyst and common Steam Turbine, Nominal 1,280MW electrical power generating facility consisting of three gas turbine generators each 299.6MW serving common steam turbine with 539MW generator.		SCR with aqueous ammonia injection grid for NOx control and Oxidation Catalyst for CO and VOC control.	No VOC limit.		BACT/LAER	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
CARB/SC AQMD	595485	LA City, Sanitation Bureau (HTP)	CA	1-Feb-19	Combined Cycle (No. 2) with SCR, Oxidation catalyst and Steam Turbine, equipped with a digester gas clean-up system; Generator serving turbine is 11.35MW with two (2) common shared steam turbine generators 7.8MW and 1MW. Three Duct Burners each 14MMBtu/hr.	Digester Gas	SCR catalyst with three modules of homogeneous honeycomb-type mixed metal catalyst each 11'-8"L x 6'-10"W x 3'-11"H / Oxidation Catalyst with 30 metal foil monoliths of platinum group metals, total layer 12'-3"L x 0'-4"W x 13'-4"H with total weight of 3060 lbs. Aqueous ammonia injection grid.	25 ppmv	1-hour with 15% o2 correction	BACT/LA ER	Mass limits are available too.
CARB/SC AQMD	492565	Signal Hill Petroleum, Inc.	CA	1-Feb-19	Simple Cycle with SCR and Oxidation catalyst, 76.20 MMBtu/hr	Produced gas mixed with natural gas	High temperature zeolite SCR with ammonia injection; SCR: 400 cu.ft., 16'W x 12'H x 34'L and OxiCat: 28 cu.ft. of catalyst volume.	25 ppmv	1-hour with 15% o2 correction	BACT/LA ER	
CARB/SC AQMD	589228	Sunshine Gas Producers, LLC	CA	1-Feb-19	Generator serving gas turbine is 4.9MW, Simple Cycle Turbine with recuperation, fueled on treated 100% LFG from Sunshine Canyon Landfill, Sunshine Gas Producers utilizes this LFG fired turbine to generate electricity to sell back to electric company. The unit does not recover exhaust waste heat. This is one of five identical units at this location. There are no add-on controls.	LFG	None	10.5 ppmv	1-hour with 15% o2 correction	BACT/LA ER	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas or ULSD	Good combustion practices	2 ppmvd as methane	4-hr with 15% o2 correction	BACT	Limit listed is with the duct burners in service when firing NG or when firing distillate oil. Limit when firing NG without the duct butners in service is 1.0 ppmvd or less, as methane, @ 15% O2
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas or ULSD	Clean/low-emitting fuels	2 ppmvd as methane	4-hr with 15% o2 correction	BACT	Limit listed is with the duct burners in service when firing NG or when firing distillate oil. Limit when firing NG without the duct butners in service is 1.0 ppmvd or less, as methane, @ 15% O2
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3-Mar-25	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural Gas or ULSD	Oxidation catalyst	2 ppmvd as methane	4-hr with 15% o2 correction	BACT	Limit listed is with the duct burners in service when firing NG or when firing distillate oil. Limit when firing NG without the duct butners in service is 1.0 ppmvd or less, as methane, @ 15% O2
Permit Application	N/A	Greensville County Power Station	VA	11-Nov-14	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Good combustion control and an oxidation catalyst	1.0 ppmvd	3-hour with 15% o2 correction	BACT	This emission limit is without duct burning. Limit with duct burning is 1.4 ppmvd, 3-hr with 15% O2 correction
Permit Application	N/A	Greensville County Power Station	VA	11-Nov-14	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	ULSD or ULSK	Good combustion control and an oxidation catalyst	6.5 ppmvd	3-hour with 15% o2 correction	BACT	Same emission limit, with or without duct burning
Permit Application	N/A	Greensville County Power Station	VA	26-Aug-15	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Good combustion control and an oxidation catalyst	1.0 ppmvd	3-hour with 15% o2 correction	BACT	This emission limit is without duct burning. Limit with duct burning is 1.4 ppmvd, 3-hr with 15% O2 correction

End of table

Appendix C-1g
BACT Analysis Database Search Results: Combustion Turbines, Sulfuric Acid Mist
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	No control listed.	2.11 lb/hr	BACT-PSD	
RBLC	CT-0158	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	Natural Gas	Use of inherently low sulfur fuel	2.11 lb/hr	BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/o Duct Firing	Natural Gas	Low Sulfur content fuel	0.0005 lb/MMBtu	BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	Natural Gas w/Duct Firing	Natural Gas	Low Sulfur Fuels	No limit listed.	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Combined-cycle electric generating unit	Natural gas	Use of low-sulfur fuels	2 GR. S/100 for gas SCF GAS	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	2-on-1 combined cycle unit (GE 7HA)	Natural gas	Clean fuels	No limit listed.	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	1-on-1 combined cycle unit (GE 7HA)	Natural Gas	Clean fuels	No limit listed.	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	Natural Gas	Low sulfur fuel	1.4 GR. S/100 SCF NG	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Combined Cycle Combustion Turbines	Natural Gas	No controls feasible for use of natural gas. ☐ ☐ For ULSD, use ultra-low sulfur diesel as a backup fuel	No limit listed.	BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Combined-Cycle Combustion Turbine	Natural Gas	No control listed.	5 POUNDS /HOUR 3-hr block avg	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Combined-Cycle Combustion Turbines	Natural Gas	Good combustion practices and use of only natural gas with a sulfur content no greater than 0.5 grains (gr)/100 standard cubic feet (scf).	2 lb/MMBtu rolling 3-operating hour	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGB	Natural Gas	No control listed.	0.0013 LB PER MMBTU	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Combined Cycle Turbine CTGA	Natural Gas	No control listed.	0.0004 lb/MMBtu	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Combined Cycle Unit 1A	Natural Gas	Use of low sulfur fuel	1.21 lb/hr hourly maximum	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Combined Cycle Unit 1B	Natural Gas	Use of low sulfur fuels	1.21 lb/hr hourly maximum	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	Natural Gas	Use of gaseous fuel (pipeline-quality natural gas) and good combustion practices.	0.0062 GR/DSCF	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Combined Cycle Gas Turbine Startup and Shutdown	Natural Gas	Good combustion practices.	2.28 lb/hr	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	2 COMBINED-CYCLE COMBUSTION TURBINES	NATURAL GAS	INITIAL AND ANNUAL PERFORMANCE TEST USING EPA METHOD 8 OR EQUIVALENT METHOD APPROVED BY MDE-ARMA	4.6 lb/hr 3-hr block average, w/out duct firing	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	Natural gas	Good Combustion Practices and the use of pipeline quality natural gas.	4.6 lb/hr test protocol will specify avg time	BACT-PSD	
RBLC	MI-0432	NEW COVERT GENERATING FACILITY	MI	07/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	Natural gas	Use of clean fuel (natural gas) with a fuel sulfur limit of 0.8 grains per 100 standard cubic feet of natural gas.	1 lb/hr hourly; each ct/hrsg train	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	2.7 lb/hr hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	2.7 lb/hr hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	0.0013 lb/MMBtu hourly; each unit	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGCTGHRSG	Natural gas	The use of clean fuel (natural gas), with a fuel sulfur limit of 1 grain per 100 standard cubic feet of natural gas.	0.0013 lb/MMBtu hourly; each unit	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGCTGHRSG	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	4.6 lb/hr hourly; each ctghrsrg	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	2.6 lb/hr hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	Good Combustion Practices and the use of pipeline quality natural gas	2.6 lb/hr hourly	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	natural gas	USE OF NATURAL GAS A LOW SULFUR FUEL	4.26 lb/hr av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	Natural Gas	USE OF NATURAL GAS A CLEAN BURNING FUEL	3.61 lb/hr av of three one h stack tests every 5 yr	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	Natural Gas	Use of clean burning fuels Natural gas	3.45 lb/hr		BACT-PSD	
RBLC	OH-0365	ROLLING HILLS GENERATING, LLC	OH	05/20/2015	Combustion Turbines, Scenario 1 (4, identical) (P001, P002, P004, P005)	Natural gas	good combustion practices along with clean fuels. Firing only natural gas with a sulfur content of 0.25 grains per 100 standard cubic feet (gr/100 scf)	2 T/YR	per rolling 12 month period. see notes.	BACT-PSD	
RBLC	OH-0365	ROLLING HILLS GENERATING, LLC	OH	05/20/2015	Combustion Turbines, Scenario 2 (4, identical) (P001, P002, P004, P005)	Natural gas	good combustion practices along with clean fuels. Firing only natural gas with a sulfur content of 0.25 grains per 100 standard cubic feet (gr/100 scf)	2.1 T/YR	per rolling 12 month period. see notes.	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Low sulfur fuel	3.4 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Low sulfur fuels	6.96 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Low sulfur fuel	3.7 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	Natural gas	Low sulfur fuel	3.7 lb/hr	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	Natural gas	pipeline quality natural gas with a maximum sulfur content not exceed 0.50 grain/100 scf	0.0011 lb/MMBtu	see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	General Electric Combustion Turbine (P004)	Natural gas	natural gas or a natural gas and ethane mixture only	0.0011 lb/MMBtu		BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Mitsubishi Combustion Turbine (P005)	Natural gas	natural gas or a natural gas and ethane mixture only	0.0009 lb/MMBtu		BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Siemens Combustion Turbine (P006)	Natural gas	natural gas or a natural gas and ethane mixture only	5.2 X10-4 lb/MMBtu	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	Natural gas	Good combustion practices and pipeline quality natural gas	0.001 lb/MMBtu	with duct burner. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	Natural gas	Good combustion practices and pipeline quality natural gas	0.0022 lb/MMBtu		BACT-PSD	
RBLC	PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	PA	02/12/2016	Large combustion turbine	Natural Gas	Low sulfur fuel and good combustion practices	0.0006 lb/MMBtu	hhv	BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two Combine Cycle Combustion Turbine with Duct Burner	Natural Gas	No control listed.	0.0011 lb/MMBtu		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Combustion turbine with duct burner	Natural gas	Exclusive natural gas	0.0009 lb/MMBtu		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG with duct burner NG only	Natural Gas	ULSD fuel (CCCT only - duct burner is not fired with ULSD), good combustion practices	0.0014 lb/MMBtu		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG without duct burner NG only	Natural gas	Low sulfur fuels and good combustion practices	0.0014 lb/MMBtu		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Combustion Turbine With Duct Burner	Natural Gas	No control listed.	0.0009 lb/MMBtu		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Combustion Turbine without Duct Burner		No control listed.	0.0009 lb/MMBtu		BACT-PSD	
RBLC	*PA-0319	RENAISSANCE ENERGY CENTER	PA	08/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	Natural Gas	No control listed.	5.98 TPY		BACT-PSD	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE #2 (ULSD)	ULSD	No control listed.	0.0012 lb/MMBtu		LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE #1 (ULSD)	ULSD	SCR, Catalytic Oxidizer	0.0012 lb/MMBtu		LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	Natural Gas	SCR, CATALYTIC OXIDIZER	0.0009 lb/MMBtu		LAER	
RBLC	PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	PA	04/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	Natural Gas	SCR, Catalytic Oxidizer	0.0009 lb/MMBtu		LAER	
RBLC	TX-0730	COLORADO BEND ENERGY CENTER	TX	04/01/2015	Combined-cycle gas turbine electric generating facility	natural gas	efficient combustion, natural gas fuel	2 GR/100 SCF	1-hour	BACT-PSD	
RBLC	TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TX	06/18/2015	Combined Cycle Turbines (>25 MW) & natural gas	natural gas	No control listed.	15.56 lb/hr		BACT-PSD	
RBLC	TX-0773	FGE EAGLE PINES PROJECT	TX	11/04/2015	Combined Cycle Turbines (>25 MW)	natural gas	low sulfur fuel	10.4 T/YR		BACT-PSD	
RBLC	TX-0788	NECHES STATION	TX	03/24/2016	Combined Cycle & Cogeneration	natural gas	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	1 GR/100 SCF	hourly	BACT-PSD	
RBLC	TX-0789	DECORDOVA STEAM ELECTRIC STATION	TX	03/08/2016	Combined Cycle & Cogeneration	natural gas	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	5 GR/100 SCF	hourly	BACT-PSD	
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	Combined Cycle Turbine	NATURAL GAS	PIPELINE QUALITY NATURAL GAS	1 GR/100 DSCF		BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	Simple Cycle Turbine	natural gas	Use of natural gas and good combustion practices	No limit listed.		BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	Combined Cycle Turbines	NATURAL GAS	good combustion practices and low sulfur fuel	0.33 GR/100 DSCF		BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	natural gas	Low Sulfur fuel	0.0006 lb/MMBtu		N/A	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	natural gas	use of natural gas with a sulfur content of no more than 0.4 gr/100scf, 12-mo rolling av	2.5 lb/hr	3 h av/without duct burning	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Siemens Combustion Turbine - Option 2 Normal Operation	Natural Gas	use of natural gas with a sulfur content of no more than 0.4 gr/100scf, 12 mo rolling av.	2.2 lb/hr	3 h av/without db	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	natural gas	Controlled by the use of pipeline-quality natural gas with a maximum sulfur content of 0.4 grains per 100 standard cubic feet (scf), on a 12-month rolling average.	0.0012 lb/MMBtu	3 hr avg	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	Natural Gas	Only use pipeline quality natural gas and diesel fuel and use good combustion control.	9.9 lb/hr	natural gas, duct firing	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	Natural Gas	No control listed.	15.6 LB/STAR T-UP		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	Natural Gas	No control listed.	14 LB/STAR T-UP		BACT-PSD	
RBLC	*WV-0029	HARRISON COUNTY POWER PLANT	WV	03/27/2018	GE 7HA.02 Turbine	Natural Gas	Use of Natural Gas	3.8 lb/hr		BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY POWER PLANT	WV	09/18/2018	GE 7HA.01 Turbine	Natural Gas/Ethane	Use of Natural Gas	2.6 lb/hr		BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	Low Sulfur Fuel	0.4 GR-S/100 SCF	see appendix d of 40cfr75	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	Pipeline Natural Gas	Low Sulfur Fuel	0.4 GR-S/100 SCF	see appendix d of 40cfr75	BACT-PSD	
RBLC	CT-0157	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	ULSD	Use of inherently low sulfur fuels	2.31 lb/hr		BACT-PSD	
RBLC	CT-0158	CPV TOWANTIC, LLC	CT	11/30/2015	Combined Cycle Power Plant	ULSD	Use of inherently low sulfur fuel	2.31 lb/hr		BACT-PSD	
RBLC	CT-0161	KILLINGLY ENERGY CENTER	CT	06/30/2017	ULSD w/o Duct Firing	ULSD	Low Sulfur Fuel	0.0005 lb/MMBtu		BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Combined Cycle Combustion Turbine without Duct Burner Firing ULSD	ULSD	No control listed.	4.3 lb/hr	av of three 1 hr stack tests	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	ULSD	use of ULSD a low sulfur fuel	4.27 lb/hr	av of three one h stack tests every 5 yr	BACT-PSD	
RBLC	NJ-0088	COGEN TECH LINDEN VENTURE LP	NJ	07/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	ULSD	USE OF NATURAL GAS AND ULSD; BOTH CLEAN BURNING FUELS	4.8 lb/hr		BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Two combined cycle combustion turbines ULSD fired with duct burner NG fired	ULSD and NG	Good combustion practices and low sulfur fuels	0.0017 lb/MMBtu		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Combustion turbine and HRSG without duct burner ULSD	ULSD	Water/steam injection, ULSD fuel (CCCT only - duct burner is not fired with ULSD), good combustion practices	0.0013 lb/MMBtu		BACT-PSD	
CARB, SCAQMD, BAAQMD								No Sulf. Ac. Mist limits given for BACT.			
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Dual-fuel combined-cycle electric generating units with HRSG and STG.	ULSD	Low sulfur content fuels	15 ppm sulfur		BACT	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Dual-fuel combined-cycle electric generating units with HRSG and STG.	Natural gas	Low sulfur content fuels	0.5 grains sulfur/100 scf		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Pipeline quality natural gas with an estimated sulfur content of 0.4 gr S/100 scf	0.00053 lb/MMBtu		BACT	This emission limit is without duct burning. Limit with duct burning is 0.00060 lb/MMBtu
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	ULSD or ULSK	Limited use of ULSD or ULSK as a backup fuel, with a sulfur content limited to 15 ppm by weight or less	0.00071 lb/MMBtu		BACT	Same emission limit, with or without duct burning
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	Dual-fuel combined cycle electric power generation station (Mitsubishi Hitachi Power Systems (MHPS) J class combustion turbine generators) with duct-fired HRSG and STG.	Natural Gas	Use of low sulfur fuels	0.00114 lb/MMBtu		BACT	This emission limit is without duct burning. Limit with duct burning is 0.00060 lb/MMBtu

End of table

Appendix C-2a
BACT Analysis Database Search Results: Auxiliary Boiler, PM
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Boilers and Heaters	ULSD	No control listed	2.3	LB/1,000 GAL		BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Boilers and Heaters	ULSD	No control listed	1.55	LB/1,000 GAL		BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Three (3) Package Boilers	Natural Gas	No control listed	0.0074	lb/MMBtu 3-hr avg		BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Three (3) Package Boilers	Natural Gas	No control listed	0.0074	lb/MMBtu 3-hr avg		BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Three (3) Package Boilers	Natural Gas	No control listed	0.0074	lb/MMBtu 3-hr avg		BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Five (5) Waste Heat Boilers	Natural Gas	No control listed	0.0074	lb/MMBtu 3-hr avg		BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Five (5) Waste Heat Boilers	Natural Gas	Limited Use (200 hr/yr)	0.0074	lb/MMBtu 3-hr avg		BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Five (5) Waste Heat Boilers	Natural Gas	No control listed	0.0074	lb/MMBtu 3-hr avg		BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Startup Heater	Natural Gas	Limited Use (200 hr/yr)	0.0074	lb/MMBtu		BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Startup Heater	Natural Gas	No control listed	0.0074	lb/MMBtu		BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Startup Heater	Natural Gas	Limited Use (200 hr/yr)	0.0074	lb/MMBtu		BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Boilers and Heaters (natural gas and diesel fired)	Natural Gas and Diesel	Clean Fuel and Good Combustion Practices	0.0254	lb/MMBtu (ULSD) 3-hour average		BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Boilers and Heaters (natural gas and diesel fired)	Natural Gas and Diesel	Clean Fuel and Good Combustion Practices	0.0254	lb/MMBtu (ULSD) 3-hour average		BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Boilers and Heaters (natural gas and diesel fired)	Natural Gas and Diesel	Clean Fuel and Good Combustion Practices	0.0254	lb/MMBtu (ULSD) 3-hour average		BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Two (2) Heaters (natural gas and diesel fired)	Natural Gas	Clean Fuel and Good Combustion Practices	0.0254	lb/MMBtu (ULSD) 3-hour average		BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Two (2) Heaters (natural gas and diesel fired)	Natural Gas	Clean Fuel and Good Combustion Practices	0.0254	lb/MMBtu (ULSD) 3-hour average		BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Two (2) Heaters (natural gas and diesel fired)	Natural Gas	Clean Fuel and Good Combustion Practices	0.0254	lb/MMBtu (ULSD) 3-hour average		BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Two (2) Buyback Gas Bath Heaters and Three (3) Operations Camp Heaters	Natural Gas	Good Combustion Practices, Clean Fuels, and Limited Operation of 500 hours per year per heater.	0.0079	lb/MMBtu 3-hour average		BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Two (2) Buyback Gas Bath Heaters and Three (3) Operations Camp Heaters	Natural Gas	Good Combustion Practices, Clean Fuels, and Limited Operation of 500 hours per year per heater.	0.0079	lb/MMBtu 3-hour average		BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Two (2) Buyback Gas Bath Heaters and Three (3) Operations Camp Heaters	Natural Gas	Good Combustion Practices, Clean Fuels, and Limited Operation of 500 hours per year per heater.	0.0079	lb/MMBtu 3-hour average		BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	90.5 MMBtu/hr Aux Boiler	Natural Gas	No control listed	0.0075	lb/MMBtu 3 hour avg		BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	90.5 MMBtu/hr Aux Boiler	Natural Gas	No control listed	0.0075	lb/MMBtu 3 hour avg		BACT-PSD	
RBLC	AL-0329	COLBERT COMBUSTION TURBINE PLANT	AL	09/21/2021	Three Gas Heaters	Natural Gas	No control listed	0.008	lb/MMBtu 3 hour avg		BACT-PSD	
RBLC	AL-0329	COLBERT COMBUSTION TURBINE PLANT	AL	09/21/2021	Three Gas Heaters	Natural Gas	No control listed	0.008	lb/MMBtu 3 hour avg		BACT-PSD	
RBLC	AR-0124	EL DORADO SAWMILL	AR	08/03/2015	STORAGE PILES FOR BARK, SAWDUST, WOOD CHIPS SN-12		WATERING PILES	0.02	LB/T		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, VACUUM DEGASSER	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	9.38	X10^-4 lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, VACUUM DEGASSER	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	9.38	X10^-4 lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, VACUUM DEGASSER	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	9.38	X10^-4 lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0019	lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0019	lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0019	lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER SN-26, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	6.8	X10^-4 lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER SN-26, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	6.8	X10^-4 lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER SN-26, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	6.8	X10^-4 lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	PREHEATER, GALVANIZING LINE SN-28	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0012	lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	PREHEATER, GALVANIZING LINE SN-28	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0012	lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	PREHEATER, GALVANIZING LINE SN-28	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0012	lb/MMBtu		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0019	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0019	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0019	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	PREHEATERS, GALVANIZING LINE SN-28 and SN-29	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0012	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	PREHEATERS, GALVANIZING LINE SN-28 and SN-29	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0012	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	PREHEATERS, GALVANIZING LINE SN-28 and SN-29	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0012	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, ANNEALING PICKLE LINE	NATURAL GAS	Combustion of Natural gas and Good Combustion Practice	0.0019	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, ANNEALING PICKLE LINE	NATURAL GAS	Combustion of Natural gas and Good Combustion Practice	0.0019	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, ANNEALING PICKLE LINE	NATURAL GAS	Combustion of Natural gas and Good Combustion Practice	0.0019	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILERS SN-26 AND SN-27, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0007	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILERS SN-26 AND SN-27, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0007	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILERS SN-26 AND SN-27, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0007	lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	HPU Steam Reformer	Fuelgas	No control listed	0.0039	lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	HPU Steam Reformer	Fuelgas	No control listed	0.0009	lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	HPU Steam Reformer	Fuelgas	No control listed	0.0008	lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	Fractionator Feed Heater	Fuelgas	No control listed	0.0039	lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	Fractionator Feed Heater	Fuelgas	No control listed	0.0009	lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	Fractionator Feed Heater	Fuelgas	No control listed	0.0008	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Galvanizing Line #2 Furnace	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0012	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Galvanizing Line #2 Furnace	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0012	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Galvanizing Line #2 Furnace	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0012	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Decarburizing Line Furnace Section	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.013	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Decarburizing Line Furnace Section	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.013	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Decarburizing Line Furnace Section	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.013	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Annealing Pickling Line Furnace Section	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.013	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Annealing Pickling Line Furnace Section	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.013	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Annealing Pickling Line Furnace Section	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.013	lb/MMBtu	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-142 Vacuum Degasser Boiler	Natural Gas	Good combustion practices	0.0019	lb/MMBtu 3-hr	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-142 Vacuum Degasser Boiler	Natural Gas	Good combustion practices	0.0076	lb/MMBtu 3-hr	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-142 Vacuum Degasser Boiler	Natural Gas	Good combustion practices	0.0076	lb/MMBtu 3-hr	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-233 Galvanizing Line Boilers	Natural Gas	Good combustion practices	0.0019	lb/MMBtu	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-233 Galvanizing Line Boilers	Natural Gas	Good combustion practices	0.0076	lb/MMBtu	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-233 Galvanizing Line Boilers	Natural Gas	Good combustion practices	0.0076	lb/MMBtu	BACT-PSD	
RBLC	AR-0172	NUCOR STEEL ARKANSAS	AR	09/01/2021	SN-202, 203, 204 Pickle Line Boilers	Natural Gas	Good Combustion Practice	0.0019	lb/MMBtu	BACT-PSD	
RBLC	AR-0172	NUCOR STEEL ARKANSAS	AR	09/01/2021	SN-202, 203, 204 Pickle Line Boilers	Natural Gas	Good Combustion Practice	0.0076	GR/DSCF	BACT-PSD	
RBLC	AR-0172	NUCOR STEEL ARKANSAS	AR	09/01/2021	SN-202, 203, 204 Pickle Line Boilers	Natural Gas	Good Combustion Practice	0.0076	GR/DSCF	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Hydrogen Plant #2 Reformer Furnace		Combustion of Natural gas and Good Combustion Practice	0.0075	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Hydrogen Plant #2 Reformer Furnace		Combustion of Natural gas and Good Combustion Practice	0.0075	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Hydrogen Plant #2 Reformer Furnace		Combustion of Natural gas and Good Combustion Practice	0.0075	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Reformer Natural Gas Fired	Natural Gas	Scrubber, Low Combustion of Natural Gas, and Good Combustion Practices NOX Burners.	0.0044	GR/DSCF	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Reformer Natural Gas Fired	Natural Gas	Scrubber, Low Combustion of Natural Gas, and Good Combustion Practices NOX Burners.	0.0044	GR/DSCF	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Reformer Natural Gas Fired	Natural Gas	Scrubber, Low Combustion of Natural Gas, and Good Combustion Practices NOX Burners.	0.0044	GR/DSCF	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Furnace Dedusting		Dust Collector and Scrubber	0.0079	GR/DSCF	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Furnace Dedusting		Dust Collector and Scrubber	0.0079	GR/DSCF		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Furnace Dedusting		Dust Collector and Scrubber	0.0079	GR/DSCF		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0019	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0019	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0019	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Galvanizing Line Boilers #1 and #2	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0007	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Galvanizing Line Boilers #1 and #2	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0007	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Galvanizing Line Boilers #1 and #2	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0007	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Galvanizing Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0012	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Galvanizing Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0012	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Galvanizing Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0012	lb/MMBtu		BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Auxiliary Boiler, 99.8 MMBtu/hr	Natural gas	Use of clean fuels	10	% OPACITY		BACT-PSD	
RBLC	FL-0361	BROOKSVILLE POWER PLANT	FL	06/21/2017	Woody Biomass-Fueled Grate Suspension Boiler	Woody biomass	ESP and multi-clone	0.037	lb/MMBtu	periodic method 5 stack test	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	99.8 MMBtu/hr auxiliary boiler	Natural gas	Clean fuels	No limit listed.			BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	99.8 MMBtu/hr auxiliary boiler	Natural gas	Clean fuels	No limit listed.			BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	99.8 MMBtu/hr auxiliary boiler	Natural gas	Clean fuels	No limit listed.			BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	60 MMBtu/hour Auxiliary Boiler	Natural Gas	Clean fuels	No limit listed.			BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	60 MMBtu/hour Auxiliary Boiler	Natural Gas	Clean fuels	No limit listed.			BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	60 MMBtu/hour Auxiliary Boiler	Natural Gas	Clean fuels	No limit listed.			BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	60 MMBtu/hour Auxiliary Boiler	Natural Gas	No control listed	1.4	GR. S/100 SCF NG	fuel recordkeeping	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	60 MMBtu/hour Auxiliary Boiler	Natural Gas	No control listed	1.4	GR. S/100 SCF NG	fuel recordkeeping	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	60 MMBtu/hour Auxiliary Boiler	Natural Gas	Clean Fuels	1.4	GR. S/100 SCF NG	fuel recordkeeping	BACT-PSD	
RBLC	*IA-0117	SHELL ROCK SOY PROCESSING	IA	03/17/2021	Natural Gas Boiler A	natural gas	Low NOx Burner and Flue Gas Recirculation	0.026	lb/hr	pm, pm10 and pm2.5	BACT-PSD	
RBLC	*IA-0117	SHELL ROCK SOY PROCESSING	IA	03/17/2021	Natural Gas Boiler B	natural gas	Low NOx Burner and Flue Gas Recirculation	0.26	lb/hr	pm, pm10 and pm2.5	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Auxiliary Boiler	Natural Gas	Good combustion practices	0.0075			BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Auxiliary Boiler	Natural Gas	Good combustion practice	0.0075	lb/MMBtu	3-hour average	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Auxiliary Boiler	Natural Gas	Good combustion practices.	0.0019	POUNDS/M MBTU	rolling 3-operating hour	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Auxiliary Boiler	Natural Gas	Good combustion practices.	0.0075	POUNDS/M MBTU	rolling 3-operating hour	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Boilers	Natural Gas	GCP and good burner design	0.0019	lb/MMBtu	3-hr avg	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Boilers	Natural Gas	GCP and good burner design	0.001	lb/MMBtu	3-hr avg	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Startup Heater	Natural Gas	GCP and good burner design	0.0024	lb/MMBtu	3-hr avg	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Startup Heater	Natural Gas	GCP and good burner design	0.0024	lb/MMBtu	3-hr avg	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	STARTUP HEATER EU-002	NATURAL GAS	GOOD COMBUSTION PRACTICE	0.13	lb/hr	3hr average	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	STARTUP HEATER EU-002	NATURAL GAS	GOOD COMBUSTION PRACTICES	0.522	lb/hr	3hour average	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	STARTUP HEATER EU-002	NATURAL GAS	GOOD COMBUSTION PRACTICES	0.522	lb/hr	3 hour average	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	NATURAL GAS AUXILIARY BOILERS (EU-012A, EU-012B, EU-012C)	NATURAL GAS	PROPER DESIGN AND GOOD COMBUSTION PRACTICES AT ALL TIMES THE BOILERS ARE IN OPERATION.	1.9	LB/MMCF EACH	3 hour average	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	NATURAL GAS AUXILIARY BOILERS (EU-012A, EU-012B, EU-012C)	NATURAL GAS	PROPER DESIGN AND GOOD COMBUSTION PRACTICES AT ALL TIMES THE BOILERS ARE IN OPERATION.	7.6	LB/MMCF EACH	3 hour average	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	NATURAL GAS AUXILIARY BOILERS (EU-012A, EU-012B, EU-012C)	NATURAL GAS	PROPER DESIGN AND GOOD COMBUSTION PRACTICES AT ALL TIMES THE BOILERS ARE IN OPERATION.	7.6	LB/MMCF EACH	3 hour average	BACT-PSD	
RBLC	IN-0285	WHITING CLEAN ENERGY, INC.	IN	08/02/2017	Space Heaters		No control listed	0.0072	lb/MMBtu	when combusting natural gas	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Coal milling and drying heater EU-1007	natural gas	Unit shall burn only natural gas and process fuel gas.□ Unit shall use good combustion practices including an oxygen trim system.	0.0019	lb/MMBtu		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Coal milling and drying heater EU-1007	natural gas	Unit will burn only natural gas and process fuel gas.□ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Coal milling and drying heater EU-1007	natural gas	Unit will burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Treat gas heater EU-2002	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0019	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Treat gas heater EU-2002	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Treat gas heater EU-2002	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Vacuum column feed heater EU-2003	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0019	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Vacuum column feed heater EU-2003	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Vacuum column feed heater EU-2003	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Boiler EU-6000	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0019	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Boiler EU-6000	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Boiler EU-6000	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Feed heater EU-2001	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0019	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Feed heater EU-2001	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Feed heater EU-2001	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Fractionator heater EU-2004	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0019	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Fractionator heater EU-2004	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Fractionator heater EU-2004	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	startup heater EU-002	natural gas	shall combust natural gas, shall be controlled by good combustion practices	200	HR/YR twelve consecutive month period	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	startup heater EU-002	natural gas	shall combust natural gas, shall be controlled by good combustion practices	200	HR/YR twelve consecutive month period	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	natural gas-fired auxiliary boilers EU 012A and EU 012B	natural gas	The natural gas-fired auxiliary boilers shall combust natural gas	7.6	LB/MMCF	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	natural gas-fired auxiliary boilers EU 012A and EU 012B	natural gas	The natural gas-fired auxiliary boilers shall combust natural gas	7.6	LB/MMCF	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Boiler (CC-BOIL)	natural gas	good combustion practices and only pipeline quality natural gas fuel shall be combusted	0.0007	lb/MMBtu	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Boiler (CC-BOIL)	natural gas	good combustion practices and only pipeline quality natural gas fuel shall be combusted	0.0007	lb/MMBtu	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Boiler (CC-BOIL)	natural gas	good combustion practices and only pipeline quality natural gas fuel shall be combusted	0.0007	lb/MMBtu	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Galvanizing Line	natural gas	good combustion practices and only pipeline quality natural gas shall be combusted	1.9	LB/MMSCF		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Galvanizing Line	natural gas	good combustion practices and only pipeline quality natural gas shall be combusted	7.6	LB/MMSCF		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Galvanizing Line	natural gas	good combustion practices and only pipeline quality natural gas shall be combusted	No limit listed.			BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Sheet Metal Coating Line	natural gas	good combustion practices and only pipeline quality natural gas shall be combusted	1.9	LB/MMSCF		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Sheet Metal Coating Line	natural gas	good combustion practices and only pipeline quality natural gas shall be combusted	7.6	LB/MMSCF		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Sheet Metal Coating Line	natural gas	good combustion practices and only pipeline quality natural gas shall be combusted	7.6	LB/MMSCF		BACT-PSD	
RBLC	IN-0361	C-PLANT (SPECIALTY SOYBEAN EXTRACTION)	IN	05/12/2023	SPC Boiler #1 PS37 & SPC Boiler #2 PS38	Natural Gas	Good Combustion Practices	1.9	LB/MMCF (EACH)		BACT-PSD	
RBLC	IN-0361	C-PLANT (SPECIALTY SOYBEAN EXTRACTION)	IN	05/12/2023	SPC Boiler #1 PS37 & SPC Boiler #2 PS38	Natural Gas	Good Combustion Practices	7.6	LB/MMCF (EACH)		BACT-PSD	
RBLC	IN-0361	C-PLANT (SPECIALTY SOYBEAN EXTRACTION)	IN	05/12/2023	SPC Boiler #1 PS37 & SPC Boiler #2 PS38	Natural Gas	Good Combustion Practices	7.6	LB/MMCF (EACH)		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Auxiliary Boiler	Natural gas	No control listed	0.0075	LB PER MMBTU	based on a 3-hour average	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Auxiliary Boiler	Natural gas	No control listed	0.0075	LB PER MMBTU	based on a 3-hr average	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Auxiliary Boiler	Natural gas	No control listed	0.0075	LB PER MMBTU	based on a 3-hr average	BACT-PSD	
RBLC	KS-0029	THE EMPIRE DISTRICT ELECTRIC COMPANY	KS	07/14/2015	Auxiliary boiler	Natural gas	No control listed	0.005	LB PER MMBTU		BACT-PSD	
RBLC	KS-0029	THE EMPIRE DISTRICT ELECTRIC COMPANY	KS	07/14/2015	Auxiliary boiler	Natural gas	No control listed	0.005	LB PER MMBTU		BACT-PSD	
RBLC	KS-0029	THE EMPIRE DISTRICT ELECTRIC COMPANY	KS	07/14/2015	Auxiliary boiler	Natural gas	No control listed	0.005	LB PER MMBTU		BACT-PSD	
RBLC	KS-0030	MID-KANSAS ELECTRIC COMPANY, LLC - RUBART STATION	KS	03/31/2016	Indirect fuel-gas heater		No control listed	0.015	lb/hr	EXCLUDES STARTUP, SHUTDOWN & MALFUNCTION	BACT-PSD	
RBLC	KS-0030	MID-KANSAS ELECTRIC COMPANY, LLC - RUBART STATION	KS	03/31/2016	Indirect fuel-gas heater		No control listed	0.015	lb/hr	EXCLUDES STARTUP, SHUTDOWN & MALFUNCTION	BACT-PSD	
RBLC	KS-0030	MID-KANSAS ELECTRIC COMPANY, LLC - RUBART STATION	KS	03/31/2016	Indirect fuel-gas heater		No control listed	0.015	lb/hr	EXCLUDES STARTUP, SHUTDOWN & MALFUNCTION	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B306	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B306	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B306	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2502	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2502	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2502	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B3401	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B3401	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B3401	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	FCCU Charge Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3-HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	FCCU Charge Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3-HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	FCCU Charge Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3-HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	Cogen Auxiliary Air Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	Cogen Auxiliary Air Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	

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RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	Cogen Auxiliary Air Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	New Crude Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	New Crude Heater	Refinery Fuel Gas	Ultra Low NOx Burner	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	New Crude Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B307	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B307	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B307	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B140	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B140	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B140	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2701	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2701	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2701	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2031	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2031	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2031	Refinery Fuel Gas	Ultra Low NOx Burners	0.0075	lb/MMBtu	3 HR ROLLING AVERAGE	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 15-01 - Natural Gas Direct-Fired Space Heaters, Process Water Heaters, & Air Makeup Heaters	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	1.9	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 15-01 - Natural Gas Direct-Fired Space Heaters, Process Water Heaters, & Air Makeup Heaters	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 15-01 - Natural Gas Direct-Fired Space Heaters, Process Water Heaters, & Air Makeup Heaters	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-01 - Group 1 Car Bottom Furnaces #1 - #3	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	1.9	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-01 - Group 1 Car Bottom Furnaces #1 - #3	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-01 - Group 1 Car Bottom Furnaces #1 - #3	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-02 - Austenitizing Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	1.9	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-02 - Austenitizing Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-02 - Austenitizing Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-02 - Group 2 Car Bottom Furnaces A & B	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	1.9	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-02 - Group 2 Car Bottom Furnaces A & B	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-02 - Group 2 Car Bottom Furnaces A & B	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-02 - Ingot Car Bottom Furnaces #1-#4	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	1.9	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-02 - Ingot Car Bottom Furnaces #1-#4	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-02 - Ingot Car Bottom Furnaces #1-#4	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-05 - Steckel Mill Coiling Furnaces #1 & #2	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	1.9	LB/MMSCF		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-05 - Steckel Mill Coiling Furnaces #1 & #2	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-05 - Steckel Mill Coiling Furnaces #1 & #2	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-03 - Tempering Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	1.9	LB/MMSCF	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-03 - Tempering Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-03 - Tempering Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Complex Makeup Air Units (EP 21-19)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Complex Makeup Air Units (EP 21-19)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Complex Makeup Air Units (EP 21-19)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Vacuum Degasser Boiler (EP 20-13)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Vacuum Degasser Boiler (EP 20-13)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Vacuum Degasser Boiler (EP 20-13)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Pickle Line #2 � Boiler #1 & #2 (EP 21-04 & EP 21-05)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF EACH	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Pickle Line #2 � Boiler #1 & #2 (EP 21-04 & EP 21-05)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF EACH	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Pickle Line #2 � Boiler #1 & #2 (EP 21-04 & EP 21-05)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSCF EACH	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Radiant Tube Furnace (EP 21-08B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Radiant Tube Furnace (EP 21-08B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Radiant Tube Furnace (EP 21-08B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Annealing Furnaces (15) (EP 21-15)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Annealing Furnaces (15) (EP 21-15)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Annealing Furnaces (15) (EP 21-15)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Preheat Furnace (EP 21-08A)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Preheat Furnace (EP 21-08A)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Preheat Furnace (EP 21-08A)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	A-Line Tunnel Furnace (EP 02-01)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSCF 3-HR AVERAGE	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	A-Line Tunnel Furnace (EP 02-01)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF 3-HR AVERAGE	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	A-Line Tunnel Furnace (EP 02-01)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF 3-HR AVERAGE	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	B-Line Tunnel Furnace (EP 02-02)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF 3-HR AVERAGE	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	B-Line Tunnel Furnace (EP 02-02)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSCF 3-HR AVERAGE	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	B-Line Tunnel Furnace (EP 02-02)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF 3-HR AVERAGE	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Heated Transfer Table Furnace (EP 02-03)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSCF	3-HR AVERAGE	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Heated Transfer Table Furnace (EP 02-03)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	3-HR AVERAGE	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Heated Transfer Table Furnace (EP 02-03)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSCF	3-HR AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 037 - Sow Dryer	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.04	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 037 - Sow Dryer	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.07	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 037 - Sow Dryer	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.07	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041a - Direct-Fired Building Heating Systems	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.1	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041a - Direct-Fired Building Heating Systems	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.4	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041a - Direct-Fired Building Heating Systems	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.4	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041b - Indirect-Fired Building Heating Systems & 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.006	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041b - Indirect-Fired Building Heating Systems & 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.02	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041b - Indirect-Fired Building Heating Systems & 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.02	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041c - Indirect-Fired Building Heating Systems & 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.04	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041c - Indirect-Fired Building Heating Systems & 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.15	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041c - Indirect-Fired Building Heating Systems & 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.15	lb/hr	MONTHLY AVERAGE	BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Gasifier Start-up Preheat Burners	Natural gas	good engineering practices, good combustion technology, and use of clean fuels	No limit listed.			BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Gasifier Start-up Preheat Burners	Natural gas	good engineering practices, good combustion technology, and use of clean fuels	No limit listed.			BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	WSA Preheat Burners	Natural Gas	good engineering design and practices and use of clean fuels	No limit listed.			BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	WSA Preheat Burners	Natural Gas	good engineering design and practices and use of clean fuels	No limit listed.			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Auxiliary boilers	natural gas	good combustion practices	No limit listed.			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Auxiliary boilers	natural gas	good combustion practices	No limit listed.			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Regenerative Heaters	natural gas	good combustion practices	No limit listed.			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Regenerative Heaters	natural gas	good combustion practices	No limit listed.			BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	Dryer Regenerator Heater - 005	process fuel gas	good combustion practices; fueled by process fuel gas	0.007	LB/MM BTU	THREE ONE-HOUR TEST AVERAGE	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	Dryer Regenerator Heater - 005	process fuel gas	good combustion practices; fueled by process fuel gas	0.007	LB/MM BTU	THREE ONE-HOUR TEST AVERAGE	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler A and B (010 and 011)	natural gas/fuel gas	good combustion practices; fueled by natural gas or process fuel gas	0.007	LB/MM BTU	THREE ONE-HOUR TEST AVERAGE	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler A and B (010 and 011)	natural gas/fuel gas	good combustion practices; fueled by natural gas or process fuel gas	0.007	LB/MM BTU	THREE ONE-HOUR TEST AVERAGE	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler B-201	natural gas/fuel gas	good combustion practices; fueled by natural gas or process fuel gas	0.007	LB/MM BTU	THREE ONE-HOUR TEST AVERAGE	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler B-201	natural gas/fuel gas	good combustion practices; fueled by natural gas or process fuel gas	0.007	LB/MM BTU	THREE ONE-HOUR TEST AVERAGE	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Reactor Charge Heater - 53B001	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.08	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Reactor Charge Heater - 53B001	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.08	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Regeneraton Heater - 51B001	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.45	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Regeneraton Heater - 51B001	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.45	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002A	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.24	lb/hr	HOURLY MAXIMUM	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002A	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.24	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002B	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.24	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002B	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.24	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002C	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.24	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002C	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.24	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002D	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.24	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002D	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.24	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002E	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.24	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002E	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.24	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	LA-0349	DRIFTWOOD LNG FACILITY	LA	07/10/2018	Hot Oil Heaters (5)	natural gas	Good Combustion Practices and Use of low sulfur facility fuel gas	0.0075	LB/MM BTU		BACT-PSD	
RBLC	LA-0349	DRIFTWOOD LNG FACILITY	LA	07/10/2018	Hot Oil Heaters (5)	natural gas	Good Combustion Practices and Use of low sulfur facility fuel gas	0.0075	LB/MM BTU		BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	HGO Hydrtreater Low Pressure Feed Heater (13-74, EQT0158)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed.			BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	HGO Hydrtreater Low Pressure Feed Heater (13-74, EQT0158)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed.			BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	Sats Gas Hot Oil Heater (92-80, EQT0167)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed.			BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	Sats Gas Hot Oil Heater (92-80, EQT0167)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed.			BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	LSR Hydrotreater Stripper Reboiler (101-85, EQT0169)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed.			BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	LSR Hydrotreater Stripper Reboiler (101-85, EQT0169)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed.			BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Hot Oil Heaters 1 and 2	Natural Gas	Use of pipeline quality natural gas or fuel gas and good combustion practices.	0.03	lb/hr		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Hot Oil Heaters 1 and 2	Natural Gas	Use of pipeline quality natural gas or fuel gas and good combustion practices.	0.03	lb/hr		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	PR Waste Heat Boiler	Natural Gas	Use of pipeline quality natural gas or fuel gas and good combustion practices.	0.61	lb/hr		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	PR Waste Heat Boiler	Natural Gas	Use of pipeline quality natural gas or fuel gas and good combustion practices.	0.61	lb/hr		BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Auxiliary Boiler	Natural Gas	Exclusive combustion of natural gas and good combustion practices.	0.0074	LB/MM BTU		BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Auxiliary Boiler	Natural Gas	Combusts exclusively natural gas and good combustion practices.	0.0074	LB/MM BTU		BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	55-22 - PAO Thermal Oxidizer	Natural Gas	Use of good thermal oxidizer design and implementation of good combustion practices	0.02	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	55-22 - PAO Thermal Oxidizer	Natural Gas	Use of good thermal oxidizer design and implementation of good combustion practices	0.02	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	02-22 - AO-5 Syltherm Furnace	Natural Gas	Use of proper burner design and fuel specifications	0.96	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	02-22 - AO-5 Syltherm Furnace	Natural Gas	Use of proper burner design and fuel specifications	0.96	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	LA-0398	CAMERON LNG FACILITY	LA	09/19/2023	Hot Oil Heaters (EQT0111, EQT0112, EQT0113)	natural gas	Proper burner design and operations☐ Good combustion practices☐ Compliance with 40 CFR 63 Subpart DDDDD☐ Fueled by natural gas	0.0075	LB/MM BTU		BACT-PSD	
RBLC	LA-0398	CAMERON LNG FACILITY	LA	09/19/2023	Hot Oil Heaters (EQT0111, EQT0112, EQT0113)	natural gas	Proper burner design and operations☐ Good combustion practices☐ Compliance with 40 CFR 63 Subpart DDDDD☐ Fueled by natural gas	0.0075	LB/MM BTU		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-1 - Boiler A	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	1.25	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-1 - Boiler A	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	1.25	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-2 - Boiler B	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	1.25	lb/hr		BACT-PSD	

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RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-2 - Boiler B	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	1.25	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-3 - Boiler C	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	1.25	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-3 - Boiler C	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	1.25	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-4 - Boiler D	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	1.25	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-4 - Boiler D	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	1.25	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-1 - Cracking Furnace A	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.8	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-1 - Cracking Furnace A	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.54	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-2 - Cracking Furnace B	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.54	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-2 - Cracking Furnace B	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.8	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-3 - Cracking Furnace C	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.54	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-3 - Cracking Furnace C	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.8	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-4 - Cracking Furnace D	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.54	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-4 - Cracking Furnace D	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.8	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-17 - Cracking Furnace E	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.54	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-17 - Cracking Furnace E	Natural Gas and/or hydrogen	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.8	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	5H-1 - Hydrochloric Acid Production Furnace - 5	Natural Gas	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.29	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	5H-1 - Hydrochloric Acid Production Furnace - 5	Natural Gas	Good combustion practices and use of natural gas and/or hydrogen rich fuel	0.29	lb/hr		BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	POx Unit Start-up Burner (EQT0006)	natural gas	Use of gaseous fuels (fuel gas and/or natural gas). Good combustion practices. Proper equipment (burner) design/operation.	0.0075	LB/MM BTU		BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	POx Unit Start-up Burner (EQT0006)	natural gas	Use of gaseous fuels (fuel gas and/or natural gas). Good combustion practices. Proper equipment (burner) design/operation.	0.0075	LB/MM BTU		BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	AUXILIARY BOILER	NATURAL GAS	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.0019	lb/MMBtu	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	AUXILIARY BOILER	NATURAL GAS	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.0075	lb/MMBtu	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	AUXILIARY BOILER	NATURAL GAS	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.0075	lb/MMBtu	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	MI-0420	DTE GAS COMPANY--MILFORD COMPRESSOR STATION	MI	06/03/2016	FGAUXBOILERS	Natural gas	Good combustion practices and low sulfur fuel (pipeline quality natural gas).	0.0075	lb/MMBtu	TEST PROTOCOL	BACT-PSD	
RBLC	MI-0420	DTE GAS COMPANY--MILFORD COMPRESSOR STATION	MI	06/03/2016	FGAUXBOILERS	Natural gas	Good combustion practices and low sulfur fuel (pipeline quality natural gas).	0.0075	lb/MMBtu	TEST PROTOCOL	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUFLTOS1 in FGTOH (Thermal Oil System for Thermally Fused Lamination Lines)	Natural gas	Good combustion practices.	0.0075	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUFLTOS1 in FGTOH (Thermal Oil System for Thermally Fused Lamination Lines)	Natural gas	Good combustion practices	No limit listed.			BACT-PSD	

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RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUFLTOS1 in FGTOH (Thermal Oil System for Thermally Fused Lamination Lines)	Natural gas	Good combustion practices	0.0004	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUTOH (In FGTOH)--Thermal Oil Heater	Natural gas	Good combustion practices.	0.0005	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUTOH (In FGTOH)--Thermal Oil Heater	Natural gas	Good combustion practices	0.0075	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUTOH (In FGTOH)--Thermal Oil Heater	Natural gas	Good combustion practices.	0.0004	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Thermal Energy Plant (EUENERGY in FGDRYERRT0)	Wood-derived fuel & biomass	Good combustion practices, dry ESP and RTO.	29.1	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME.	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Thermal Energy Plant (EUENERGY in FGDRYERRT0)	Wood-derived fuel & biomass	Good combustion practices, dry ESP, RTO.	28.4	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Thermal Energy Plant (EUENERGY in FGDRYERRT0)	Wood-derived fuel & biomass	Good combustion practices, dry ESP, RTO.	16.55	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUAUXBOILER (Auxiliary Boiler)	natural gas	Good combustion practices.	1.36	lb/hr	HOURLY, TEST PROTOCOL	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUAUXBOILER (Auxiliary Boiler)	natural gas	Good combustion practices.	0.005	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUAUXBOILER (Auxiliary Boiler)	natural gas	Good combustion practices.	1.36	lb/hr	HOURLY, TEST PROTOCOL	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGFUELHTR (Two fuel pre-heaters identified as EUFUELHTR1 & EUFUELHTR2)	Natural gas	Good combustion practices.	0.002	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME.	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGFUELHTR (Two fuel pre-heaters identified as EUFUELHTR1 & EUFUELHTR2)	Natural gas	Good combustion practices.	0.2	lb/hr	HOURLY; EACH FUEL HEATER	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGFUELHTR (Two fuel pre-heaters identified as EUFUELHTR1 & EUFUELHTR2)	Natural gas	Good combustion practices.	0.2	lb/hr	HOURLY; EACH FUEL HEATER	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUFUELHTR (Fuel pre-heater)	Natural gas	Good combustion practices.	0.007	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUFUELHTR (Fuel pre-heater)	Natural gas	Good combustion practices.	0.0075	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUFUELHTR (Fuel pre-heater)	Natural gas	Good combustion practices.	0.0075	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME.	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUAUXBOILER (Auxiliary boiler)	natural gas	Good combustion practices.	0.0018	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUAUXBOILER (Auxiliary boiler)	natural gas	Good combustion practices.	0.007	lb/MMBtu	TEST PROTOCOL WIL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUAUXBOILER (Auxiliary boiler)	natural gas	Good combustion practices.	0.007	lb/MMBtu	TEST PROTOCOL WILL SPECIFY AVG TIME.	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUENERGY in FGDRYERRT0 (Thermal Energy Plant)	Wood derived fuel and biomass	Good combustion practices, dry ESP, RTO.	29.1	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUENERGY in FGDRYERRT0 (Thermal Energy Plant)	Wood derived fuel and biomass	Good combustion practices, dry ESP, RTO.	28.4	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME.	BACT-PSD	

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RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUENERGY in FGDRYERRT0 (Thermal Energy Plant)	Wood derived fuel and biomass	Good combustion practices, dry ESP and RTO.	16.55	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUTOH in FGTOH	Natural gas	Good combustion practices	0.0075	lb/MMBtu	TEST PROTOCOL SHALL SPECIFY	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUTOH in FGTOH	Natural gas	Good combustion practices.	0.0005	lb/MMBtu	TEST PROTOCOL SHALL SPECIFY	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUTOH in FGTOH	Natural gas	Good combustion practices.	0.0004	lb/MMBtu	TEST PROTOCOL SHALL SPECIFY	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFLTOS1 in FGTOH	Natural gas	Good combustion practices	0.0075	lb/MMBtu	TEST PROTOCOL SHALL SPECIFY	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFLTOS1 in FGTOH	Natural gas	Good combustion practices.	0.0005	lb/MMBtu	TEST PROTOCOL SHALL SPECIFY	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFLTOS1 in FGTOH	Natural gas	Good combustion practices	0.0004	lb/MMBtu	TEST PROTOCOL SHALL SPECIFY	BACT-PSD	
RBLC	MI-0426	DTE GAS COMPANY - MILFORD COMPRESSOR STATION	MI	03/24/2017	FGAUXBOILERS (6 auxiliary boilers EUAUXBOIL2A, EUAUXBOIL3A, EUAUXBOIL2B, EUAUXBOIL3B, EUAUXBOIL2C, EUAUXBOIL3C)	Natural gas	Good combustion practices and low sulfur fuel (pipeline quality natural gas).	0.52	LB/MMSCF	EACH BOILER	BACT-PSD	
RBLC	MI-0426	DTE GAS COMPANY - MILFORD COMPRESSOR STATION	MI	03/24/2017	FGAUXBOILERS (6 auxiliary boilers EUAUXBOIL2A, EUAUXBOIL3A, EUAUXBOIL2B, EUAUXBOIL3B, EUAUXBOIL2C, EUAUXBOIL3C)	Natural gas	Good combustion practices and low sulfur fuel (pipeline quality natural gas).	0.52	LB/MMSCF	EACH BOILER	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.005	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Good combustion practices	0.46	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.46	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.005	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.46	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.46	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUAUXBOILER: Auxiliary Boiler	Natural gas	Good combustion practices, low sulfur fuel	0.007	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUAUXBOILER: Auxiliary Boiler	Natural gas	Good combustion practices, low sulfur fuel	0.007	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUAUXBOILER: Auxiliary Boiler	Natural gas	Good combustion practices, low sulfur fuel	0.007	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR1: Natural gas fired fuel heater	Natural gas	Low sulfur fuel	0.15	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR1: Natural gas fired fuel heater	Natural gas	Low sulfur fuel	0.15	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR1: Natural gas fired fuel heater	Natural gas	Low sulfur fuel	0.15	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR2: Natural gas fired fuel heater	Natural gas	Low sulfur fuel	0.03	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR2: Natural gas fired fuel heater	Natural gas	Low sulfur fuel	0.03	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR2: Natural gas fired fuel heater	Natural gas	Low sulfur fuel	0.03	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0440	MICHIGAN STATE UNIVERSITY	MI	05/22/2019	FGFUELHEATERS	natural gas	Good combustion practices	0.002	lb/MMBtu	HOURLY; EACH UNIT	BACT-PSD	
RBLC	MI-0440	MICHIGAN STATE UNIVERSITY	MI	05/22/2019	FGFUELHEATERS	natural gas	Good combustion practices	0.008	lb/MMBtu	HOURLY; EACH UNIT	BACT-PSD	
RBLC	MI-0440	MICHIGAN STATE UNIVERSITY	MI	05/22/2019	FGFUELHEATERS	natural gas	Good combustion practices	0.008	lb/MMBtu	HOURLY; EACH UNIT	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUAUXBOILER--natural gas fired auxiliary boiler rated at <= 99MMBTU/H	Natural gas	Good combustion practices	0.74	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUAUXBOILER--natural gas fired auxiliary boiler rated at <= 99MMBTU/H	Natural gas	Good combustion practices	0.74	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGAUXBOILER	Natural gas	Low sulfur fuel (natural gas) and good combustion practices (efficient combustion).	1.9	LB/MMSCF	HOURLY; EACH BOILER	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGAUXBOILER	Natural gas	Low sulfur fuel (natural gas) and good combustion practices (efficient combustion).	7.6	LB/MMSCF	HOURLY; EACH BOILER	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGAUXBOILER	Natural gas	Low sulfur fuel (natural gas) and good combustion practices (efficient combustion).	7.6	LB/MMSCF	HOURLY; EACH BOILER	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGPREHEAT	natural gas	Low sulfur fuel (natural gas) and good combustion practices (efficient combustion).	1.9	LB/MMSCF	HOURLY; EACH UNIT	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGPREHEAT	natural gas	Low sulfur fuel (natural gas) and good combustion practices (efficient combustion)	7.6	LB/MMSCF	HOURLY; EACH UNIT	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGPREHEAT	natural gas	Low sulfur fuel (natural gas) and good combustion practices (efficient combustion).	7.6	LB/MMSCF	HOURLY; EACH UNIT	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUAUXBOILER	Natural gas	Good combustion practices	0.005	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUAUXBOILER	Natural gas	Good combustion practices	1.36	lb/hr	HOURLY	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUAUXBOILER	Natural gas	Good combustion practices	1.36	lb/hr	HOURLY	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGFUELHTR (2 fuel pre-heaters)	Natural gas	Good combustion practices	0.002	lb/MMBtu	HOURLY; EACH FUEL HEATER	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGFUELHTR (2 fuel pre-heaters)	Natural gas	Good combustion practices	0.1	lb/hr	HOURLY; EACH FUEL HEATER	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGFUELHTR (2 fuel pre-heaters)	Natural gas	Good combustion practices	0.1	lb/hr	HOURLY; EACH FUEL HEATER	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUAUXBOILER--nat gas fired auxiliary boiler	Natural gas	Good combustion practices.	0.74	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUAUXBOILER--nat gas fired auxiliary boiler	Natural gas	Good combustion practices.	0.4	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal energy plant (EUENERGY in FGDRYERRTO)	wood-derived fuel and biomass	Good combustion practices, dry ESP, RTO	29.1	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal energy plant (EUENERGY in FGDRYERRTO)	wood-derived fuel and biomass	Good combustion practices, dry ESP, RTO	28.4	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal energy plant (EUENERGY in FGDRYERRTO)	wood-derived fuel and biomass	Good combustion practices, dry ESP, RTO	16.55	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil heater (EUTOH in FGTOH)	Natural gas	Good combustion practices	0.0075	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil heater (EUTOH in FGTOH)	Natural gas	Good combustion practices	0.0005	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil heater (EUTOH in FGTOH)	Natural gas	Good combustion practices	0.0004	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil system for thermally fused lamination lines (EUFLTOS1 in FGTOH)	Natural gas	Good combustion practices	0.0075	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil system for thermally fused lamination lines (EUFLTOS1 in FGTOH)	Natural gas	Good combustion practices	0.0005	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil system for thermally fused lamination lines (EUFLTOS1 in FGTOH)	Natural gas	Good combustion practices	0.0004	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Good combustion practices	0.005	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Good combustion practices	0.46	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.46	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.005	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices	0.46	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices	0.46	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUAUXBOILER--natural-gas fired auxiliary boiler, rated at less than or equal to 99 MMBTU/H	Natural gas	Good combustion practices.	0.4	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUAUXBOILER--natural-gas fired auxiliary boiler, rated at less than or equal to 99 MMBTU/H	Natural gas	Good combustion practices.	0.4	lb/hr	HOURLY	BACT-PSD	
RBLC	MN-0096	USG CLOQUET	MN	04/03/2024	Space Heater (EQUI 161)	Natural gas	Good combustion practices	7.6	lb/MMBtu	3 HOUR AVERAGE	BACT-PSD	
RBLC	MN-0096	USG CLOQUET	MN	04/03/2024	Space Heater (EQUI 161)	Natural gas	Good combustion practices	7.6	lb/MMBtu	3 HOUR AVERAGE	BACT-PSD	
RBLC	NE-0064	NORFOLK CRUSH, LLC	NE	11/21/2022	Boiler A	Natural Gas	No control listed	0.26	lb/hr	THREE 1-HOUR TESTS / TEST METHOD AVERAGE	BACT-PSD	
RBLC	NE-0064	NORFOLK CRUSH, LLC	NE	11/21/2022	Boiler B	Natural Gas	No control listed	0.26	lb/hr	THREE 1-HOUR TESTS / TEST METHOD AVERAGE	BACT-PSD	
RBLC	NE-0068	AG PROCESSING INC - DAVID CITY	NE	06/27/2023	Boiler 1		No control listed	1.43	lb/hr	THREE 1-HOUR TESTS / TEST METHOD AVERAGE	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	NE-0068	AG PROCESSING INC - DAVID CITY	NE	06/27/2023	Boiler 2		No control listed	1.43	lb/hr	THREE 1-HOUR TESTS / TEST METHOD AVERAGE	BACT-PSD	
RBLC	NE-0068	AG PROCESSING INC - DAVID CITY	NE	06/27/2023	Boiler 3		No control listed	1.43	lb/hr	THREE 1-HOUR TESTS / TEST METHOD AVERAGE	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Auxiliary Boiler firing natural gas	natural gas	Use of natural gas a clean burning	0.26	lb/hr	AV OF THREE ONE HOUR STACK TESTS	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Auxiliary Boiler firing natural gas	natural gas	use of natural gas a clean burning fuel	0.4	lb/hr	AV OF THREE ONE HOUR STACK TESTS	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Auxiliary Boiler firing natural gas	natural gas	use of natural gas a clean burning fuel	0.4	lb/hr	AV OF THREE ONE HOUR STACK TESTS	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	AUXILIARY BOILER	Natural GAS	USE OF NATURAL GAS A CLEAN BURNING FUEL	0.181	lb/hr	AV OF THREE ONE H STACK TESTS INITIALLY	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	AUXILIARY BOILER	Natural GAS	USE OF NATURAL GAS A CLEAN BURNING FUEL	0.488	lb/hr	AV OF THREE ONE H STACK TESTS INITIALLY	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	AUXILIARY BOILER	Natural GAS	USE OF NATURAL GAS A CLEAN BURNING FUEL	0.488	lb/hr	AV OF THREE ONE H STACK TESTS INITIALLY	BACT-PSD	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Auxiliary boiler	natural gas	good combustion practiced and pipeline quality natural gas	0.005	lb/MMBtu	1 H	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Auxiliary Boiler (B001)	Natural gas	Low sulfur fuel	0.27	lb/hr		BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Auxiliary Boiler (B001)	Natural gas	Low sulfur fuel	0.27	lb/hr		BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Auxiliary Boiler (B001)	Natural gas	natural gas/ULSD	5.94	lb/hr		BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Auxiliary Boiler (B001)	Natural gas	natural gas/ULSD	5.94	lb/hr		BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Startup Heater (B001)	Natural gas	Good combustion control (i.e., high temperatures, sufficient excess air, sufficient residence times, and god air/fuel mixing).	0.75	lb/hr		BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Startup Heater (B001)	Natural gas	Good combustion control (i.e., high temperatures, sufficient excess air, sufficient residence times, and god air/fuel mixing).	0.75	lb/hr		BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Auxiliary Boiler (B001)	Natural gas	Low sulfur fuel	0.3	lb/hr		BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Auxiliary Boiler (B001)	Natural gas	Low sulfur fuel	0.3	lb/hr		BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Auxiliary Boiler (B001)	Natural gas	low sulfur fuel	0.3	lb/hr		BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Auxiliary Boiler (B001)	Natural gas	low sulfur fuel	0.3	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Auxiliary Boiler (B001)	Natural gas	Gas combustion control	1.3	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Auxiliary Boiler (B001)	Natural gas	Gas combustion control	1.3	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Auxiliary Boiler (B001)	Natural gas	Gas combustion control	1.3	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Fuel Gas Heaters (2 identical, P007 and P008)	Natural gas	Combustion control	0.075	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Fuel Gas Heaters (2 identical, P007 and P008)	Natural gas	Combustion control	0.075	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Fuel Gas Heaters (2 identical, P007 and P008)	Natural gas	Combustion control	0.075	lb/hr		BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Auxiliary Boiler (B001)	Natural gas	Low sulfur fuel	0.27	lb/hr		BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Auxiliary Boiler (B001)	Natural gas	Low sulfur fuel	0.27	lb/hr		BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Auxiliary Boiler (B001)	Natural gas	Low sulfur fuel	0.27	lb/hr		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B001)	Natural gas	Pipeline quality natural gas	0.33	lb/hr		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B001)	Natural gas	Pipeline quality natural gas	0.33	lb/hr		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B001)	Natural gas	Pipeline quality natural gas	0.33	lb/hr		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B002)	Natural gas	Pipeline quality natural gas	0.48	lb/hr		BACT-PSD	

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RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B002)	Natural gas	Pipeline quality natural gas	0.48	lb/hr		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B002)	Natural gas	Pipeline quality natural gas	0.48	lb/hr		BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Startup boiler (B001)	Natural gas	Good combustion practices and the use of natural gas	0.113	lb/hr	SEE NOTES.	BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Startup boiler (B001)	Natural gas	Good combustion practices and the use of natural gas	0.113	lb/hr	SEE NOTES.	BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Process gas heater (P001)	Natural gas	Good combustion practices and the use of natural gas	1.63	lb/hr	SEE NOTES.	BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Process gas heater (P001)	Natural gas	Good combustion practices and the use of natural gas	1.63	lb/hr	SEE NOTES.	BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Ladle Preheaters (P002, P003 and P004)	Natural gas	Good combustion practices and the use of natural gas	0.112	lb/hr		BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Ladle Preheaters (P002, P003 and P004)	Natural gas	Good combustion practices and the use of natural gas	0.112	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace #2 (P018)	Natural Gas	Use of natural gas, good combustion practices and design	0.88	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace #2 (P018)	Natural Gas	Use of natural gas, good combustion practices and design	0.88	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace #2 (P018)	Natural Gas	Use of natural gas, good combustion practices and design	0.88	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace (P001)	Natural Gas	Use of natural gas, good combustion practices and design	1.12	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace (P001)	Natural Gas	Use of natural gas, good combustion practices and design	1.12	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace (P001)	Natural Gas	Use of natural gas, good combustion practices and design	1.12	lb/hr		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	45.6 MMBtu/hr Natural Gas-Fired Nitrogen Vaporizers: B029 through B032	Natural gas	Good combustion practices and the use of natural gas	0.45	T/YR	PER ROLLING 12 MONTH PERIOD COMBINED	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	45.6 MMBtu/hr Natural Gas-Fired Nitrogen Vaporizers: B029 through B032	Natural gas	Good combustion practices and the use of natural gas	0.12	T/YR	PER ROLLING 12 MONTH PERIOD COMBINED	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	45.6 MMBtu/hr Natural Gas-Fired Nitrogen Vaporizers: B029 through B032	Natural gas	Good combustion practices and the use of natural gas	0.1	T/YR	PER ROLLING 12 MONTH PERIOD COMBINED	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	29.4 MMBtu/hr Natural Gas-Fired Boilers: B001 through B028	Natural gas	Good combustion practices and the use of natural gas	1.68	T/YR	PER ROLLING 12 MONTH PERIOD B001 TO B014	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	29.4 MMBtu/hr Natural Gas-Fired Boilers: B001 through B028	Natural gas	Good combustion practices and the use of natural gas	0.46	T/YR	PER ROLLING 12 MONTH PERIOD B001 TO B014	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	29.4 MMBtu/hr Natural Gas-Fired Boilers: B001 through B028	Natural gas	Good combustion practices and the use of natural gas	0.38	T/YR	PER ROLLING 12 MONTH PERIOD B001 TO B014	BACT-PSD	
RBLC	OK-0166	TULSA RFNRY WEST	OK	04/20/2015	PROCESS HEATER	RFG(RefineryFuelGas)	Use of gas fuel.	0.0075	lb/MMBtu	3-HOURS	BACT-PSD	
RBLC	OK-0166	TULSA RFNRY WEST	OK	04/20/2015	PROCESS HEATER	RFG(RefineryFuelGas)	Use of gas fuel.	0.0075	lb/MMBtu	3-HOURS	BACT-PSD	
RBLC	OK-0166	TULSA RFNRY WEST	OK	04/20/2015	PROCESS HEATER	RFG(RefineryFuelGas)	Ultra Low-NOx Burners and use of gas fuel.	0.0075	lb/MMBtu	3-HOURS	BACT-PSD	
RBLC	OK-0166	TULSA RFNRY WEST	OK	04/20/2015	PROCESS HEATER	RFG(RefineryFuelGas)	Ultra Low-NOx Burners and use of gas fuel.	0.0075	lb/MMBtu	3-HOURS	BACT-PSD	
RBLC	OK-0167	TULSA RFNRY EAST	OK	04/20/2015	PROCESS HEATER	REFINERY FUEL GAS	GAS FUEL	0.0075	lb/MMBtu		BACT-PSD	
RBLC	OK-0167	TULSA RFNRY EAST	OK	04/20/2015	PROCESS HEATER	REFINERY FUEL GAS	GAS FUEL	0.0075	lb/MMBtu		BACT-PSD	
RBLC	OK-0167	TULSA RFNRY EAST	OK	04/20/2015	PROCESS HEATER	RFG(Refinery Fuel Gas)	GAS FUEL.	0.0075	lb/MMBtu		BACT-PSD	
RBLC	OK-0167	TULSA RFNRY EAST	OK	04/20/2015	PROCESS HEATER	RFG(Refinery Fuel Gas)	GAS FUEL.	0.0075	lb/MMBtu		BACT-PSD	
RBLC	OK-0173	CMC STEEL OKLAHOMA	OK	01/19/2016	Heaters (Gas-Fired)	Natural Gas	Natural Gas Fuel.	0.0076	lb/MMBtu		BACT-PSD	
RBLC	OK-0173	CMC STEEL OKLAHOMA	OK	01/19/2016	Heaters (Gas-Fired)	Natural Gas	Natural Gas Fuel.	0.0076	lb/MMBtu		BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Auxiliary Boiler	Natural Gas	Good combustion practices and low sulfur fuels	0.005	lb/MMBtu		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Auxiliary Boiler	Natural Gas	Good combustion practices and low sulfur fuels	0.005	lb/MMBtu	BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Auxiliary Boiler	Natural Gas	Good combustion practices and low sulfur fuels	0.005	lb/MMBtu	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Auxillary Boiler	Natural gas	Natural gas fired exclusively	0.002	lb/MMBtu	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Auxillary Boiler	Natural gas	No control listed	0.007	lb/MMBtu	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Auxillary Boiler	Natural gas	No control listed	0.007	lb/MMBtu	BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Auxiliary boiler	Natural Gas	ULSD and good combustion practices	0.007	lb/MMBtu	BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Auxiliary boiler	Natural Gas	ULSD and good combustion practices	0.007	lb/MMBtu	BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Auxiliary boiler	Natural Gas	ULSD and good combustion practices	0.007	lb/MMBtu	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Auxiliary Boiler	Natural Gas	No control listed	0.007	lb/MMBtu	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Auxiliary Boiler	Natural Gas	No control listed	0.007	lb/MMBtu	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Auxiliary Boiler	Natural Gas	No control listed	0.007	lb/MMBtu	BACT-PSD	
RBLC	*PA-0316	RENOVO ENERGY CENTER, LLC	PA	01/26/2018	Auxiliary Boiler	Natural Gas	No control listed	0.0019	LB MMBTU	BACT-PSD	
RBLC	SC-0179	CAROLINA PARTICLEBOARD	SC	03/18/2015	THERMAL OIL HEATER #2	NATURAL GAS	USE OF NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.01	lb/hr	BACT-PSD	
RBLC	SC-0179	CAROLINA PARTICLEBOARD	SC	03/18/2015	THERMAL OIL HEATER #2	NATURAL GAS	NATURAL GAS USAGE AND GOOD COMBUSTION PRACTICES.	0.003	lb/hr	BACT-PSD	
RBLC	SC-0193	MERCEDES BENZ VANS, LLC	SC	04/15/2016	Energy Center Boilers	Natural Gas	Annual tune ups per 40 CFR 63.7540(a)(10) are required.	7.6	LB/MMSCF 3 HR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0193	MERCEDES BENZ VANS, LLC	SC	04/15/2016	Energy Center Boilers	Natural Gas	Annual tune ups per 40 CFR 63.7540(a)(10) are required.	7.6	LB/MMSCF 3 HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0193	MERCEDES BENZ VANS, LLC	SC	04/15/2016	Energy Center Boilers	Natural Gas	Annual tune ups per 40 CFR 63.7540(a)(10) are required.	7.6	LB/MMSCF 3 HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	TX-0694	INDECK WHARTON ENERGY CENTER	TX	02/02/2015	heater	natural gas	No control listed	No limit listed.		BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion. gaseous fuel	1.31	T/YR	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion. gaseous fuel	1.31	T/YR	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Use of gaseous fuel with efficient combustion.	7.49	T/YR	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Use of gaseous fuel with efficient combustion.	7.49	T/YR	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	0.4	T/YR	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	4	T/YR	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-2001 Kero HDT Charge Heater and F-2002 Kero HDT Stripper Reboiler	NATL GAS AND REFINERY GAS	good combustion and the use of low sulfur gaseous fuel	0.67	lb/hr	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-2001 Kero HDT Charge Heater and F-2002 Kero HDT Stripper Reboiler	NATL GAS AND REFINERY GAS	good combustion and the use of low sulfur gaseous fuel	0.67	lb/hr	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-2001 Kero HDT Charge Heater and F-2002 Kero HDT Stripper Reboiler	NATL GAS AND REFINERY GAS	good combustion and the use of low sulfur gaseous fuel	0.67	lb/hr	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-3001 Diesel DHDT Charge Heater and F-3002 Diesel DHDT Stripper Reboiler	NATL AND REFINERY GAS	good combustion and the use of gaseous fuel	0.49	lb/hr	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-3001 Diesel DHDT Charge Heater and F-3002 Diesel DHDT Stripper Reboiler	NATL AND REFINERY GAS	good combustion and the use of gaseous fuel	0.49	lb/hr	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-3001 Diesel DHDT Charge Heater and F-3002 Diesel DHDT Stripper Reboiler	NATL AND REFINERY GAS	good combustion and the use of gaseous fuel	0.49	lb/hr	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-3001 Diesel DHDT Charge Heater and F-3002 Diesel DHDT Stripper Reboiler	NATL AND REFINERY GAS	good combustion and the use of gaseous fuel	0.49	lb/hr	BACT-PSD	
RBLC	TX-0851	RIO BRAVO PIPELINE FACILITY	TX	12/17/2018	Thermal Oxidizer	NATL GAS	Natural Gas / Clean Fuel, good combustion practices.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	TX-0851	RIO BRAVO PIPELINE FACILITY	TX	12/17/2018	Thermal Oxidizer	NATL GAS	Natural Gas / Clean Fuel, good combustion practices.	0.0075	lb/MMBtu	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	Heaters	natural gas	Good combustion practice, clean fuel, and proper design.	0.0075	lb/MMBtu		BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	Heaters	natural gas	Good combustion practice, clean fuel, and proper design	0.0075	lb/MMBtu		BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	Heaters	natural gas	Good combustion practice, clean fuel, and proper design	0.0075	lb/MMBtu		BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	Water Bath Heater	NATURAL GAS	Good combustion practices	0.007	lb/MMBtu		BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	Water Bath Heater	NATURAL GAS	Good combustion practices	0.007	lb/MMBtu		BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	Water Bath Heater	NATURAL GAS	Good combustion practices	0.007	lb/MMBtu		BACT-PSD	
RBLC	TX-0964	NEDERLAND FACILITY	TX	10/05/2023	HEATERS	NATURAL GAS	Good combustion practices and fire hydrogenâ€rich plant □ fuel gas, 5% OPACITY	No limit listed.			BACT-PSD	
RBLC	TX-0964	NEDERLAND FACILITY	TX	10/05/2023	HEATERS	NATURAL GAS	Good combustion practices and fire hydrogenâ€rich plant □ fuel gas, 5% OPACITY	No limit listed.			BACT-PSD	
RBLC	*TX-0999	SEMICONDUCTOR MANUFACTURING FACILITY	TX	07/07/2025	BOILERS	NATURAL GAS	GOOD COMBUSTION PRACTICES, CLEAN GASEOUS FUEL	No limit listed.			BACT-PSD	
RBLC	*TX-0999	SEMICONDUCTOR MANUFACTURING FACILITY	TX	07/07/2025	BOILERS	NATURAL GAS	GOOD COMBUSTION PRACTICES, CLEAN GASEOUS FUEL	No limit listed.			BACT-PSD	
RBLC	*TX-0999	SEMICONDUCTOR MANUFACTURING FACILITY	TX	07/07/2025	BOILERS	NATURAL GAS	GOOD COMBUSTION PRACTICES, CLEAN GASEOUS FUEL	No limit listed.			BACT-PSD	
RBLC	VA-0333	NORFOLK NAVAL SHIPYARD	VA	12/09/2020	Three (3) boilers	Natural Gas	No control listed	0.0078	LB	MMBTU	BACT-PSD	
RBLC	VA-0333	NORFOLK NAVAL SHIPYARD	VA	12/09/2020	Three (3) boilers	Natural Gas	No control listed	0.0078	LB	MMBTU	BACT-PSD	
RBLC	*WA-0349	HANFORD	WA	04/04/2013	steam generating boiler	diesel	Good combustion practices	13400000	GAL/YR	365 DAYS	BACT-PSD	
RBLC	WI-0270	DAIRYLAND POWER COOP ALMA STATION	WI	06/13/2016	B27 - Auxiliary Steam Boiler	Distillate fuel oil	Switch to ultra-low sulfur fuel oil (sulfur content no greater than 15 ppm, by weight)	0.015	lb/MMBtu		BACT-PSD	
RBLC	WI-0270	DAIRYLAND POWER COOP ALMA STATION	WI	06/13/2016	B27 - Auxiliary Steam Boiler	Distillate fuel oil	Switch to ultra-low sulfur fuel oil (sulfur content no greater than 15 ppm, by weight)	0.011	lb/MMBtu		BACT-PSD	
RBLC	WI-0270	DAIRYLAND POWER COOP ALMA STATION	WI	06/13/2016	B27 - Auxiliary Steam Boiler	Distillate fuel oil	Switch to ultra-low sulfur fuel oil (sulfur content no greater than 15 ppm, by weight)	0.01	lb/MMBtu		BACT-PSD	
RBLC	WI-0276	LOUISIANA-PACIFIC CORPORATION	WI	04/02/2015	B11 & B12 Boilers	Wood Waste	Cyclone, Wet Electrostatic Precipitator, and Thermal Oxidizer in series	6.1	lb/hr		BACT-PSD	
RBLC	WI-0276	LOUISIANA-PACIFIC CORPORATION	WI	04/02/2015	B11 & B12 Boilers	Wood Waste	Cyclone, Wet Electrostatic Precipitator, and Thermal Oxidizer in series	6.1	lb/hr		BACT-PSD	
RBLC	WI-0276	LOUISIANA-PACIFIC CORPORATION	WI	04/02/2015	B21 & B22 Boilers	Wood Waste	Cyclone, Wet Electrostatic Precipitator, and Thermal Oxidizer in series	6.1	lb/hr		BACT-PSD	
RBLC	WI-0276	LOUISIANA-PACIFIC CORPORATION	WI	04/02/2015	B21 & B22 Boilers	Wood Waste	Cyclone, Wet Electrostatic Precipitator, and Thermal Oxidizer in series	6.1	lb/hr		BACT-PSD	
RBLC	WI-0283	AFE, INC. â€œLCM PLANT	WI	04/24/2018	B01-B12, Boilers	Natural Gas	Good Combustion Practices	0.0075	lb/MMBtu		BACT-PSD	
RBLC	WI-0283	AFE, INC. â€œLCM PLANT	WI	04/24/2018	B01-B12, Boilers	Natural Gas	Good Combustion Practices	0.0075	lb/MMBtu		BACT-PSD	
RBLC	WI-0283	AFE, INC. â€œLCM PLANT	WI	04/24/2018	B01-B12, Boilers	Natural Gas	Good Combustion Practices	0.0075	lb/MMBtu		BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	B13-B24 & B25-B36 Natural Gas-Fired Boilers	Natural Gas	Good Combustion Practices and The Use of Pipeline Quality Natural Gas	0.0075	lb/MMBtu		BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	B13-B24 & B25-B36 Natural Gas-Fired Boilers	Natural Gas	Good Combustion Practices and The Use of Pipeline Quality Natural Gas	0.0075	lb/MMBtu		BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	B13-B24 & B25-B36 Natural Gas-Fired Boilers	Natural Gas	Good Combustion Practices and The Use of Pipeline Quality Natural Gas	0.0075	lb/MMBtu		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Auxiliary Boiler (B02)	Natural Gas	Only use pipeline quality natural gas and operate and maintain B02 according to manufacturerâ€™s recommendations.	0.01	lb/MMBtu		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Auxiliary Boiler (B02)	Natural Gas	Only combust pipeline quality natural gas and operate and maintain boiler according to the manufacturerâ€™s recommendations.	0.01	lb/MMBtu		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Auxiliary Boiler (B02)	Natural Gas	Only combust pipeline quality natural gas and operate and maintain B02 according to the manufacturerâ€™s recommendations.	0.01	lb/MMBtu		BACT-PSD	
RBLC	WI-0306	WPL- RIVERSIDE ENERGY CENTER	WI	02/28/2020	Temporary Boiler (B98A)	Natural Gas	Combust only pipeline quality natural gas, can be operated for no more than 500 hours.	0.008	lb/MMBtu	HEAT INPUT	BACT-PSD	
RBLC	WI-0306	WPL- RIVERSIDE ENERGY CENTER	WI	02/28/2020	Temporary Boiler (B98A)	Natural Gas	Combust only pipeline quality natural gas, can be operated for no more than 500 hours.	0.008	lb/MMBtu	HEAT INPUT	BACT-PSD	
RBLC	WI-0306	WPL- RIVERSIDE ENERGY CENTER	WI	02/28/2020	Temporary Boiler (B98A)	Natural Gas	Combust only pipeline quality natural gas, can be operated for no more than 500 hours.	0.008	lb/MMBtu	HEAT INPUT	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Boiler; S02/B02	natural gas	(a) Only pipeline quality natural gas may be combusted in B02. □ (b) The permittee shall operate and maintain B02 according to the manufacturer's recommendations.	0.01 lb/MMBtu	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Heaters: S04/P04 and S05/P05	natural gas	(a) The permittee shall operate and maintain according to the manufacturer's recommendations. □ (b) The permittee shall tune within 120 days of the initial operation, and within 24-months of each preceding tune-up. □ (c) The permittee may only combust pipeline quality natural gas.	0.01 lb/MMBtu	BACT-PSD	
RBLC	*WI-0331	WPL SHEBOYGAN FALLS ENERGY FACILITY	WI	01/22/2025	P07 5 Natural Gas Boiler Heaters	Natural Gas	Good Combustion Practices	0.007 lb/MMBtu	BACT-PSD	
RBLC	*WV-0029	HARRISON COUNTY POWER PLANT	WV	03/27/2018	Auxiliary Boiler	Natural Gas	Use of Natural Gas, Good Combustion Practices	0.6 lb/hr	BACT-PSD	
RBLC	*WV-0031	MOCKINGBIRD HILL COMPRESSOR STATION	WV	06/14/2018	WH-1 - Boiler	Natural Gas	Limited to natural gas	No limit listed.	BACT-PSD	
RBLC	*WV-0031	MOCKINGBIRD HILL COMPRESSOR STATION	WV	06/14/2018	WH-1 - Boiler	Natural Gas	Limited to natural gas	No limit listed.	BACT-PSD	
RBLC	*WV-0031	MOCKINGBIRD HILL COMPRESSOR STATION	WV	06/14/2018	WH-1 - Boiler	Natural Gas	Limited to natural gas.	No limit listed.	BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY POWER PLANT	WV	09/18/2018	Auxiliary Boiler	Natural Gas/Ethane	Use of Natural Gas, Good Combustion Practices	0.87 lb/hr	BACT-PSD	
BAAQMD	17.3.1	Bay Area	CA	8/4/2010	Boilers with greater than or equal to 50 MMBtu/hr heat input.		Natural gas or treated refinery gas fuel	No limits given	BACT-PSD	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	Natural Gas	Good combustion practices and pipeline quality natural gas	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	ULSD or ULSK	Good combustion practices	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices and pipeline quality natural gas	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	185 MMBtu/hr auxiliary boiler	Natural Gas	Good combustion practices and pipeline quality natural gas	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices and pipeline quality natural gas	No limit listed.	BACT	

End of table

Appendix C-2b
BACT Analysis Database Search Results: Auxiliary Boiler, GHG
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Boilers and Heaters	ULSD	No control specified	45537 TONS/YE combined AR	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Three (3) Package Boilers	Natural Gas	No control specified	59.61 TONS/MM 3-hr avg CF	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Five (5) Waste Heat Boilers	Natural Gas	No control specified	59.61 TONS/MM 3-hr avg CF	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Startup Heater	Natural Gas	Limited Use (200 hr/yr)	59.61 TONS/MM CF	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Boilers and Heaters (natural gas and diesel fired)	Natural Gas and Diesel	Good Combustion Practices	176347 TPY yearly	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Two (2) Heaters (natural gas and diesel fired)	Natural Gas	Good Combustion Practices	176347 TPY yearly	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Two (2) Buyback Gas Bath Heaters and Three (3) Operations Camp Heaters	Natural Gas	Good Combustion Practices, Clean Fuels, and Limited Operation of 500 hours per year per heater.	117.1 lb/MMBtu 3-hour average	BACT-PSD	
RBLC	AL-0307	ALLOYS PLANT	AL	10/09/2015	PACKAGE BOILER	NATURAL GAS	No control specified	34189 T/YR 12 month rolling total	BACT-PSD	
RBLC	AL-0307	ALLOYS PLANT	AL	10/09/2015	2 CALP LINE BOILERS	NATURAL GAS	No control specified	34189 T/YR 12 month rolling total	BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	90.5 MMBtu/hr Aux Boiler	Natural Gas	No control specified	46416 TPY	BACT-PSD	
RBLC	AL-0329	COLBERT COMBUSTION TURBINE PLANT	AL	09/21/2021	Three Gas Heaters	Natural Gas	No control specified	117.1 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, VACUUM DEGASSER	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	117 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, VACUUM DEGASSER	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0022 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, VACUUM DEGASSER	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0002 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, PICKLE LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	117 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, PICKLE LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0022 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, PICKLE LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0002 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER SN-26, GALVANIZING LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	117 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER SN-26, GALVANIZING LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0022 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER SN-26, GALVANIZING LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0002 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	PREHEATER, GALVANIZING LINE SN-28	NATURAL GAS	GOOD OPERATING PRACTICES	117 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	PREHEATER, GALVANIZING LINE SN-28	NATURAL GAS	GOOD OPERATING PRACTICES	0.0022 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	PREHEATER, GALVANIZING LINE SN-28	NATURAL GAS	GOOD OPERATING PRACTICES	0.0002 lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, PICKLE LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	117 lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, PICKLE LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0022 lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, PICKLE LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0002 lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	PREHEATERS, GALVANIZING LINE SN-28 and SN-29	NATURAL GAS	GOOD OPERATING PRACTICES	117 lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	PREHEATERS, GALVANIZING LINE SN-28 and SN-29	NATURAL GAS	GOOD OPERATING PRACTICES	0.0022 lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	PREHEATERS, GALVANIZING LINE SN-28 and SN-29	NATURAL GAS	GOOD OPERATING PRACTICES	0.0002 lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, ANNEALING PICKLE LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	117 lb/MMBtu	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, ANNEALING PICKLE LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0022 lb/MMBtu		BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, ANNEALING PICKLE LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0002 lb/MMBtu		BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILERS SN-26 AND SN-27, GALVANIZING LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	117 lb/MMBtu		BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILERS SN-26 AND SN-27, GALVANIZING LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0022 lb/MMBtu		BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILERS SN-26 AND SN-27, GALVANIZING LINE	NATURAL GAS	GOOD OPERATING PRACTICES MINIMUM BOILER EFFICIENCY 75%	0.0002 lb/MMBtu		BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Galvanizing Line #2 Furnace	Natural Gas	Good operating practices	117 lb/MMBtu		BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Galvanizing Line #2 Furnace	Natural Gas	Good operating practices	0.0022 lb/MMBtu		BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Galvanizing Line #2 Furnace	Natural Gas	Good operating practices	0.0002 lb/MMBtu		BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Annealing Pickling Line Furnace Section	Natural Gas	Good operating practices	117 lb/MMBtu		BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Annealing Pickling Line Furnace Section	Natural Gas	Good operating practices	0.0022 lb/MMBtu		BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Annealing Pickling Line Furnace Section	Natural Gas	Good operating practices	0.0002 lb/MMBtu		BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-142 Vacuum Degasser Boiler	Natural Gas	Good combustion practices	121 lb/MMBtu		BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-233 Galvanizing Line Boilers	Natural Gas	Good combustion practices	121 lb/MMBtu		BACT-PSD	
RBLC	AR-0172	NUCOR STEEL ARKANSAS	AR	09/01/2021	SN-202, 203, 204 Pickle Line Boilers	Natural Gas	Good Combustion Practice	121 lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Hydrogen Plant #2 Reformer Furnace		Good Operating Practices	117 lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Reformer Natural Gas Fired	Natural Gas	Good Operating Practices	1680207 TPY		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Furnace Dedusting		Good Operating Practices	54701 TPY		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Line Boiler	Natural Gas	Good operating practices□ Minimum Boiler Efficiency	117 lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Galvanizing Line Boilers #1 and #2	Natural Gas	Good operating practices□ Minimum Boiler Efficiency	117 lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Galvanizing Line Boiler	Natural Gas	Good operating practices	117 lb/MMBtu		BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Auxiliary Boiler, 99.8 MMBtu/hr	Natural gas	Use of natural gas only	No limit listed.		BACT-PSD	
RBLC	FL-0361	BROOKSVILLE POWER PLANT	FL	06/21/2017	Woody Biomass-Fueled Grate Suspension Boiler	Woody biomass	No control specified	3300 LB CO2 / MWH (GROSS)	12-month rolling	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Auxiliary Boiler	Natural Gas	Good combustion practice	22500 TON/YR	12-month rolling average	BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Auxiliary Boiler	Natural Gas	Good combustion practice	11250 TONS/YE AR	12-month rolling average	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Auxiliary Boiler	Natural Gas	Good combustion practices.	5059 TONS/YE AR	12 month rolling	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Boilers	Natural Gas	No control specified	No limit listed.		BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Startup Heater	Natural Gas	Energy efficient design, GCP, and use of automated combustion management system with inlet air controls	604 TONS/YE AR	12-month rolling avg	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	STARTUP HEATER EU-002	NATURAL GAS	GOOD COMBUSTION PRACTICES AND THE USE OF INLET AIR CONTROL SENSORS THAT LIMIT EXCESS AIR	8184 lb/hr	3 hour average	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	NATURAL GAS AUXILIARY BOILERS (EU-012A, EU-012B, EU-012C)	NATURAL GAS	GOOD COMBUSTION PRACTICES AT ALL TIMES THE BOILERS ARE IN OPERATION.	59.61 TON/MM CF EACH	3 hour average	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Coal milling and drying heater EU-1007	natural gas	Unit shall burn only natural gas and process off-gas.□ Unit shall be designed and operated to achieve the highest practical energy efficiency.□ Unit shall use good combustion practices including an oxygen trim system.	29127 TONS	12 consecutive months	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Treat gas heater EU-2002	natural gas	Unit shall burn only natural gas and process off-gas.□ Unit shall be designed and operated to achieve the highest practical energy efficiency.□ Unit shall use good combustion practices including an oxygen trim system.	27561 TONS	12 consecutive months	BACT-PSD	

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RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Vacuum column feed heater EU-2003	natural gas	Unit shall burn only natural gas and process off-gas.☐ Unit shall be designed and operated to achieve the highest practical energy efficiency.☐ Unit shall use good combustion practices including an oxygen trim system.	4698 TONS	12 consecutive months	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Boiler EU-6000	natural gas	Unit shall burn only natural gas and process off-gas.☐ Unit shall be designed and operated to achieve the highest practical energy efficiency.☐ Unit shall use good combustion practices including an oxygen trim system.	35756 TONS	12 consecutive months	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Feed heater EU-2001	natural gas	Unit shall burn only natural gas and process off-gas.☐ Unit shall be designed and operated to achieve the highest practical energy efficiency.☐ Unit shall use good combustion practices including an oxygen trim system.	67023 TONS	12 consecutive months	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Fractionator heater EU-2004	natural gas	Unit shall burn only natural gas and process off-gas.☐ Unit shall be designed and operated to achieve the highest practical energy efficiency.☐ Unit shall use good combustion practices including an oxygen trim system.	81430 TONS	12 consecutive months	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	startup heater EU-002	natural gas	shall combust natural gas, shall be controlled by good combustion practices	200 HR/YR	twelve consecutive month period	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	natural gas-fired auxiliary boilers EU 012A and EU 012B	natural gas	The natural gas-fired auxiliary boilers shall combust natural gas; shall be designed to achieve a minimum 80% thermal efficiency (HHV); shall be equipped with the following energy efficient design features: air inlet controls, heat recovery, condensate recovery, and blow down heat recovery.	59.61 TON/MM CF		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Boiler (CC-BOIL)	natural gas	energy efficiency measures and only pipeline quality natural gas fuel shall be combusted	117.1 lb/MMBtu		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Galvanizing Line	natural gas	good combustion practices and only pipeline quality natural gas shall be combusted	117.1 lb/MMBtu		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Sheet Metal Coating Line	natural gas	good combustion practices and only pipeline quality natural gas shall be combusted	2625 TONS/YR		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Auxiliary Boiler	Natural gas	No control specified	11244 TONS PER YEAR		BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Auxiliary Boiler (AB-3)	Natural Gas	Good Combustion Practices	117 lb/MMBtu		BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Dewpoint Heater	Natural Gas	Good Combustion Practices	117 lb/MMBtu		BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Ammonia Catalyst Startup Heater	Natural Gas	Good Combustion Practices	117 lb/MMBtu		BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Auxiliary Boiler (Unit 1C)	Natural Gas	Good Combustion Practices	117 lb/MMBtu		BACT-PSD	
RBLC	KS-0029	THE EMPIRE DISTRICT ELECTRIC COMPANY	KS	07/14/2015	Auxiliary boiler	Natural gas	No control specified	9521.5 TONS PER YEAR	12-month rolling average basis	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 15-01 - Natural Gas Direct-Fired Space Heaters, Process Water Heaters, & Air Makeup Heaters	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan and meet design requirements.	20734 TON/YR	12-month rolling, combined	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-01 - Group 1 Car Bottom Furnaces #1 - #3	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan and meet design requirements.	43542 TON/YR	12-month rolling, combined	BACT-PSD	

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RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-02 - Austenitizing Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan and implement design standards.	27991 TON/YR	12-month rolling	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-02 - Group 2 Car Bottom Furnaces A & B	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan and meet design requirements.	31101 TON/YR	12-month rolling, combined	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-02 - Ingot Car Bottom Furnaces #1-#4	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan and meet design standards.	76717 TON/YR	12-month rolling	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-05 - Steckel Mill Coiling Furnaces #1 & #2	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	18142 TON/YR	12-month rolling	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-03 - Tempering Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan and meet design requirements.	24881 TON/YR	12-month rolling	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Complex Makeup Air Units (EP 21-19)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	20734 TONS/YR	12-month rolling	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Vacuum Degasser Boiler (EP 20-13)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	26125 TONS/YR	12-month rolling	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Pickle Line #2 â€” Boiler #1 & #2 (EP 21-04 & EP 21-05)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	12675 TONS/YR	each	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	11922 TONS/YR	12-month rolling	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Radiant Tube Furnace (EP 21-08B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	18660 TONS/YR	12-month rolling	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Annealing Furnaces (15) (EP 21-15)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	37581 TONS/YR	12-month rolling, combined	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Preheat Furnace (EP 21-08A)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	48725 TONS/YR	12-month rolling	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	30 TONS/YR	12-month rolling	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	A-Line Tunnel Furnace (EP 02-01)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	54065 TONS/YR	12-month rolling	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	B-Line Tunnel Furnace (EP 02-02)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	84544 TONS/YR	12-month rolling	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Heated Transfer Table Furnace (EP 02-03)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	33952 TONS/YR	12-month rolling	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 037 - Sow Dryer	Natural Gas	Design Requirements, Good Combustion & Operation Practices (GCOP) Plan	10258 TONS/YR	12-month rolling total	BACT-PSD	

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RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041a - Direct-Fired Building Heating Systems	Natural Gas	Design Requirements, Good Combustion & Operation Practices (GCOP) Plan	27890 TONS/YR 12-month rolling total	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041b - Indirect-Fired Building Heating Systems & 1 MMBtu	Natural Gas	Design Requirements, Good Combustion & Operation Practices (GCOP) Plan	1579 TONS/YR 12-month rolling total	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041c - Indirect-Fired Building Heating Systems & 1 MMBtu	Natural Gas	Design Requirements, Good Combustion & Operation Practices (GCOP) Plan	10104 TONS/YR 12-month rolling total	BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Gasifier Start-up Preheat Burners	Natural gas	good equipment design and good combustion practices	No limit listed.	BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	WSA Preheat Burners	Natural Gas	good equipment design and good combustion practices	No limit listed.	BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Auxiliary boilers	natural gas	good combustion/operating/maintenance practices and fueled by natural gas	No limit listed.	BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Regenerative Heaters	natural gas	good combustion/operating/maintenance practices and fueled by natural gas	No limit listed.	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	Dryer Regenerator Heater - 005	process fuel gas	good combustion practices and proper operation and maintenance; gaseous fuels; Insulation	No limit listed.	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler A and B (010 and 011)	natural gas/fuel gas	good combustion practices and proper operation and maintenance; gaseous fuels; economizers & Insulation; combustion air preheating; condensate return system	No limit listed.	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler B-201	natural gas/fuel gas	good combustion practices and proper operation and maintenance; gaseous fuels; economizers & Insulation; combustion air preheating; condensate return system	No limit listed.	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Reactor Charge Heater - 53B001	Natural Gas	Energy Efficiency Measures	No limit listed.	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Regeneraton Heater - 51B001	Natural Gas	Energy Efficiency Measures	No limit listed.	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002A	Natural Gas	Energy Efficiency Measures	No limit listed.	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002B	Natural Gas	Energy Efficiency Measures	No limit listed.	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002C	Natural Gas	Energy Efficiency Measures	No limit listed.	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002D	Natural Gas	Energy Efficiency Measures	No limit listed.	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002E	Natural Gas	Energy Efficiency Measures	No limit listed.	BACT-PSD	
RBLC	LA-0349	DRIFTWOOD LNG FACILITY	LA	07/10/2018	Hot Oil Heaters (5)	natural gas	Use Low Carbon Fuel, Energy Efficiency Measures, and Good Combustion Practices	No limit listed.	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Hot Oil Heaters 1 and 2	Natural Gas	Use of fuel gas as fuel, energy-efficient design options, and operational/maintenance practices.	5858 TONS/YR	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	PR Waste Heat Boiler	Natural Gas	Use of natural gas or fuel gas as fuel, energy-efficient design options, and operational/maintenance practices.	455475 T/YR	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Auxiliary Boiler	Natural Gas	Good combustion practices; compliance with 40 CFR 63 Subpart DDDDD.	117 LB/MM BTU	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	55-22 - PAO Thermal Oxidizer	Natural Gas	Use of good thermal oxidizer design and implementation of good combustion practices	No limit listed.	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	02-22 - AO-5 Syltherm Furnace	Natural Gas	Use of low carbon fuels, good combustion practices, good operating and maintenance practices, and energy efficient design	No limit listed.	BACT-PSD	
RBLC	LA-0398	CAMERON LNG FACILITY	LA	09/19/2023	Hot Oil Heaters (EQT0111, EQT0112, EQT0113)	natural gas	Use of low carbon fuels Good combustion/operation/maintenance practices Efficient design	No limit listed.	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-1 - Cracking Furnace A	Natural Gas and/or hydrogen	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed.	BACT-PSD	

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RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-2 - Cracking Furnace B	Natural Gas and/or hydrogen	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed.		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-3 - Cracking Furnace C	Natural Gas and/or hydrogen	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed.		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-4 - Cracking Furnace D	Natural Gas and/or hydrogen	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed.		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-17 - Cracking Furnace E	Natural Gas and/or hydrogen	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed.		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	5H-1 - Hydrochloric Acid Production Furnace - 5	Natural Gas	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed.		BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	POx Unit Start-up Burner (EQT0006)	natural gas	Use of low carbon intensity gaseous fuels. □ Good combustion and operating practices. □ Efficiency improvement measures.	No limit listed.		BACT-PSD	
RBLC	MI-0420	DTE GAS COMPANY--MILFORD COMPRESSOR STATION	MI	06/03/2016	FGAUXBOILERS	Natural gas	Use of pipeline quality natural gas and energy efficiency measures.	6155 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUFLTOS1 in FGTOH (Thermal Oil System for Thermally Fused Lamination Lines)	Natural gas	Good combustion and maintenance practices. Natural gas only.	5254 T/YR	based upon a 12-mo rolling time period	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUTOH (In FGTOH)--Thermal Oil Heater	Natural gas	Good combustion and maintenance practices, natural gas only.	17438 T/YR	based upon a 12-mo rolling time period	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Thermal Energy Plant (EUENERGY in FGDRYERRTO)	Wood-derived fuel & biomass	Good operating and maintenance practices	205655 T/YR	12-month rolling time period	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUAUXBOILER (Auxiliary Boiler)	natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	93346 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGFUELHTR (Two fuel pre-heaters identified as EUFUELHTR1 & EUFUELHTR2)	Natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	13848 T/YR	12-mo rolling time period; combined limi	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUFUELHTR (Fuel pre-heater)	Natural gas	Good combustion practices.	1934 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUAUXBOILER (Auxiliary boiler)	natural gas	Good combustion practices.	43283 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUENERGY in FGDRYERRTO (Thermal Energy Plant)	Wood derived fuel and biomass	Good operating and maintenance practices.	205655 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUTOH in FGTOH	Natural gas	Good combustion and maintenance practices, natural gas only.	19490 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFLTOS1 in FGTOH	Natural gas	Good combustion and maintenance practices, natural gas only.	5254 T/YR	12-mo rolling time period	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	MI-0426	DTE GAS COMPANY - MILFORD COMPRESSOR STATION	MI	03/24/2017	FGAUXBOILERS (6 auxiliary boilers EUAUXBOIL2A, EUAUXBOIL3A, EUAUXBOIL2B, EUAUXBOIL3B, EUAUXBOIL2C, EUAUXBOIL3C)	Natural gas	Use of pipeline quality natural gas and energy efficiency measures.	7324 T/YR	combined for all boilers	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	31540 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	31540 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUAUXBOILER: Auxiliary Boiler	Natural gas	Energy efficiency measures, use of natural gas.	25623 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR1: Natural gas fired fuel heater	Natural gas	Natural gas fuel	6310 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR2: Natural gas fired fuel heater	Natural gas	Natural gas fuel	6310 T/YR	12-month rolling time period	BACT-PSD	
RBLC	MI-0440	MICHIGAN STATE UNIVERSITY	MI	05/22/2019	FGFUELHEATERS	natural gas	Utilize low-carbon fuels and implement energy efficiency measures and preventative maintenance pursuant to manufacturer recommendations.	12822 T/YR	12-mo rolling time period; each unit	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUAUXBOILER--natural gas fired auxiliary boiler rated at <= 99MMBTU/H	Natural gas	Low carbon fuel (pipeline quality natural gas), good combustion practices and energy efficiency measures.	50776 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGAUXBOILER	Natural gas	Energy efficiency	41031 T/YR	12-mo rolling time period; each boiler	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGPREHEAT	natural gas	Energy efficiency	3590 T/YR	12-mo rolling time period; each unit	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUAUXBOILER	Natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	93346 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGFUELHTR (2 fuel pre-heaters)	Natural gas	Energy Efficiency Measures and the use of a low carbon fuel (pipeline quality natural gas)	13848 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUAUXBOILER--nat gas fired auxiliary boiler	Natural gas	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	25644 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal energy plant (EUENERGY in FGDRYERRTO)	wood-derived fuel and biomass	Good operating and maintenance practices	257292 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil heater (EUTOH in FGTOH)	Natural gas	Good combustion and maintenance practices, natural gas only.	19490 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil system for thermally fused lamination lines (EUFLTOS1 in FGTOH)	Natural gas	Good Combustion and Maintenance Practices, Natural Gas Only	5254 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	31540 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Energy Efficiency Measures and the use of a low carbon fuel (pipeline quality natural gas)	31540 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUAUXBOILER--natural-gas fired auxiliary boiler, rated at less than or equal to 99 MMBTU/H	Natural gas	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	25644 T/YR	12-mo rolling time period	BACT-PSD	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Auxiliary boiler	natural gas	good combustion practiced and pipeline quality natural gas	119 lb/MMBtu	12 mo	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Auxiliary Boiler (B001)	Natural gas	Good combustion controls/natural gas combustion	4008 T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Auxiliary Boiler (B001)	Natural gas	Good combustion controls, natural gas combustion, and ULSD	32171 T/YR	per rolling 12 month period	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Startup Heater (B001)	Natural gas	Good combustion control (i.e., high temperatures, sufficient excess air, sufficient residence times, and god air/fuel mixing).	2840 T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Auxiliary Boiler (B001)	Natural gas	Good combustion controls/natural gas combustion	4456 T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Auxiliary Boiler (B001)	Natural gas	use of natural gas, good combustion controls	4502 T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Auxiliary Boiler (B001)	Natural gas	Natural gas, low-emitting fuel	54167 T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Fuel Gas Heaters (2 identical, P007 and P008)	Natural gas	Natural gas, low-emitting fuel	7695 T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Auxiliary Boiler (B001)	Natural gas	Natural gas as the sole fuel	7845 T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B001)	Natural gas	Good combustion practices and pipeline quality natural gas	2817.6 T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B002)	Natural gas	Good combustion practices and pipeline quality natural gas	5009.1 T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Startup boiler (B001)	Natural gas	Good combustion practices and the use of natural gas	1784 lb/hr		BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Process gas heater (P001)	Natural gas	Good combustion practices and the use of natural gas	25830.2 lb/hr		BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Ladle Preheaters (P002, P003 and P004)	Natural gas	Good combustion practices and the use of natural gas	1764 lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace #2 (P018)	Natural Gas	Use of natural gas and energy efficient design	10283.06 lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace (P001)	Natural Gas	Use of natural gas and energy efficient design	13087.2 lb/hr		BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Process gas heater (P001)	Natural Gas	Good combustion practices and the use of natural gas	70203 lb/hr		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	45.6 MMBtu/hr Natural Gas-Fired Nitrogen Vaporizers: B029 through B032	Natural gas	Good combustion practices and the use of natural gas	28200 T/YR	PER ROLLING 12 MONTH PERIOD COMBINE D	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	29.4 MMBtu/hr Natural Gas-Fired Boilers: B001 through B028	Natural gas	Good combustion practices and the use of natural gas	106048 T/YR	PER ROLLING 12 MONTH PERIOD B001 TO B014	BACT-PSD	
RBLC	OK-0164	MIDWEST CITY AIR DEPOT	OK	01/08/2015	Heaters/Boilers	Natural Gas	1. Use pipeline-quality natural gas.□ 2. Good Combustion Practices.□ 3. Tune-ups for applicable boilers/heaters per 40CFR63, Subpart DDDDD	153716 TONS PER YEAR	TOTAL FOR ALL UNITS.	BACT-PSD	
RBLC	OK-0166	TULSA RFNRY WEST	OK	04/20/2015	PROCESS HEATER	RFG(RefineryFuelGas)	GAS FUEL AND ENERGY EFFICIENCY.	146 lb/MMBtu		BACT-PSD	
RBLC	OK-0166	TULSA RFNRY WEST	OK	04/20/2015	PROCESS HEATER	RFG(RefineryFuelGas)	GAS FUEL AND ENERGY EFFICIENCY.	146 lb/MMBtu		BACT-PSD	
RBLC	OK-0167	TULSA RFNRY EAST	OK	04/20/2015	PROCESS HEATER	REFINERY FUEL GAS	GAS FUEL;ENERGY EFFICIENCY	146 lb/MMBtu		BACT-PSD	
RBLC	OK-0167	TULSA RFNRY EAST	OK	04/20/2015	PROCESS HEATER	RFG(Refinery Fuel Gas)	Gas fuel and energy efficiency.	146 lb/MMBtu		BACT-PSD	
RBLC	OK-0173	CMC STEEL OKLAHOMA	OK	01/19/2016	Heaters (Gas-Fired)	Natural Gas	Natural Gas Fuel	120 lb/MMBtu		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Auxillary Boiler	Natural gas	No control specified	44107 TON	12-MONTH ROLLING BASIS	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Auxiliary Boiler	Natural Gas	No control specified	13561 TPY	12-MONTH ROLLING BASIS	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	20758 T/YR		BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practices and use of low carbon fuel	119195 T/YR		BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	6850 T/YR		BACT-PSD	
RBLC	TX-0813	ODESSA PETROCHEMICAL PLANT	TX	11/22/2016	Boilers	natural gas	Minimum thermal design efficiency of 75 percent	63796 T/YR		BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-2001 Kero HDT Charge Heater and F-2002 Kero HDT Stripper Reboiler	NATL GAS AND REFINERY GAS	control of maximum stack exhaust temperature, performing preventative maintenance as necessary, and inspecting and tuning burners and conducting a visual inspection of the heater components annually.	600 DEGREE F		BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-3001 Diesel DHDt Charge Heater and F-3002 Diesel DHDt Stripper Reboiler	NATL AND REFINERY GAS	control of maximum stack exhaust temperature, performing preventative maintenance as necessary, and inspecting and tuning burners and conducting a visual inspection of the heater components annually	600 DEGREE F		BACT-PSD	
RBLC	TX-0845	ARKEMA BEAUMONT PLANT	TX	08/24/2018	HEATERS	NATL GAS	low carbon fuel selection, and good combustion practices	No limit listed.		BACT-PSD	
RBLC	TX-0851	RIO BRAVO PIPELINE FACILITY	TX	12/17/2018	Thermal Oxidizer	NATL GAS	Natural Gas / Clean Fuel, good combustion practices.	No limit listed.		BACT-PSD	
RBLC	TX-0861	BUCKEYE TEXAS PROCESSING CORPUS CHRISTI FACILITY	TX	08/29/2019	Boilers	refinery fuel gas	Low Carbon Fuel Selection□ Good Combustion Practices	No limit listed.		BACT-PSD	
RBLC	TX-0861	BUCKEYE TEXAS PROCESSING CORPUS CHRISTI FACILITY	TX	08/29/2019	HEATERS	REFINERY FUEL GAS	Low Carbon Fuel Selection□ Good Combustion Practices	No limit listed.		BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	Heaters	natural gas	Good combustion practice, clean fuel, and proper design	No limit listed.		BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	Water Bath Heater	NATURAL GAS	Good combustion practices	No limit listed.		BACT-PSD	
RBLC	TX-0964	NEDERLAND FACILITY	TX	10/05/2023	HEATERS	NATURAL GAS	Good combustion practices and fire hydrogenâ€rich plant □ fuel gas	No limit listed.		BACT-PSD	
RBLC	TX-0973	SEADRIFT FACILITY	TX	05/03/2024	Pre-Filtration Heater	NATURAL GAS & PLANT GAS	The heater utilizes treated plant fuel gas or pipeline-quality natural gas as fuel and good combustion practices will be used to reduce emissions including maintaining the proper air-to-fuel ratio, necessary residence time, temperature and turbulent. No previous determinations for carbon capture and collection, transport, compression, and injection of CO2 into underground cavities (i.e., carbon capture and storage or CCS) or low/zero-carbon fuels such as hydrogen or ammonia was listed in the RBLC	No limit listed.		BACT-PSD	
RBLC	*TX-1000	ANTELOPE ELK ENERGY CENTER	TX	08/14/2025	FUEL GAS HEATER	NATURAL GAS	GOOD COMBUSTION PRACTICES	No limit listed.		BACT-PSD	
RBLC	VA-0333	NORFOLK NAVAL SHIPYARD	VA	12/09/2020	Three (3) boilers	Natural Gas	No control specified	117.1 LB	MMBTU	BACT-PSD	
RBLC	WI-0266	GREEN BAY PACKAGING, INC. - SHIPPING CONTAINER DIVISION	WI	09/06/2018	Natural gas-fired boiler (Boiler B01)	Natural Gas	Good combustion practices, use only natural gas, equip with Low NOx burners and flue gas recirculation	160 LBCO2E/1000 LB STEAM		BACT-PSD	
RBLC	WI-0270	DAIRYLAND POWER COOP ALMA STATION	WI	06/13/2016	B27 - Auxiliary Steam Boiler	Distillate fuel oil	Limit GHG emissions to 203.8 pounds of carbon dioxide equivalents (CO2-e) per 1000 pounds of steam produced,□ averaged over any 12 consecutive month period (computed monthly).	No limit listed.	SEE BELOW	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	WI-0283	AFE, INC. – LCM PLANT	WI	04/24/2018	B01-B12, Boilers	Natural Gas	Ultra-low NOx Burners, Flue Gas Recirculation, Good Combustion Practices and the Use of Pipeline Quality Natural Gas	160 LB/1000 LB CO2E	12-MONTH AVERAGE	BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	B13-B24 & B25-B36 Natural Gas-Fired Boilers	Natural Gas	Ultra-Low NOx Burners, Flue Gas Recirculation, and Good Combustion Practices and the Use of Pipeline Quality Natural Gas	160 LB CO2E/100 0LB STEAM	12 MONTH AVERAGE	BACT-PSD	
RBLC	WI-0292	GREEN BAY PACKAGING INC. – MILL DIVISION	WI	04/01/2019	P44 Space Heaters	Natural Gas	Good Combustion Practices, the Use of Low-NOx Burners	No limit listed.		BACT-PSD	
RBLC	WI-0297	GREEN BAY PACKAGING- MILL DIVISION	WI	12/10/2019	Natural Gas-Fired Space Heaters (P44)	Natural Gas	Use only natural gas.	90 % AVG THERM EFF		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Auxiliary Boiler (B02)	Natural Gas	Ultra-low NOx burners and flue gas recirculation. Operate and maintain boiler according to manufacturer’s recommendations. Only use pipeline quality natural gas.	160 lb/MMBtu	12-MONTH ROLLING AVG.	BACT-PSD	
RBLC	WI-0303	GREEN BAY PACKAGING INC.- GB MILL DIV.	WI	07/14/2020	Natural Gas-Fired Boiler (B01)	Natural Gas	Only burn natural gas, good combustion practices, low NOx burner, and flue gas recirculation.	16771 T/Y	ANY CONSECUTIVE 12-MONTH PERIOD	BACT-PSD	
RBLC	WI-0305	WPL- RIVERSIDE ENERGY CENTER	WI	01/22/2021	Natural Gas Auxiliary Boiler (B22)	Natural Gas	Combust only pipeline quality natural gas.	157 LB CO2/MMBTU	ANY MONTH, AVG ANY CONSECUTIVE 12-MONTHS	BACT-PSD	
RBLC	WI-0306	WPL- RIVERSIDE ENERGY CENTER	WI	02/28/2020	Temporary Boiler (B98A)	Natural Gas	Combust only pipeline quality natural gas.	118 LB CO2/MMBTU	HEAT INPUT	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Boiler; S02/B02	natural gas	B02 shall be equipped with ultra-low NOx burners and flue gas recirculation. □ The permittee shall operate and maintain B02 according to the manufacturer’s recommendations. □ Only pipeline quality natural gas may be combusted in B02.	160 LBS OF CO2E	PER MMBTU USEFUL HEAT (STEAM) OUTPUT,	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Heaters: S04/P04 and S05/P05	natural gas	(a) Equipped with low-NOx burners. □ (b) Only pipeline quality natural gas may be combusted. □ (c) The permittee shall operate and maintain according to the manufacturer’s recommendations. □ (d) The permittee shall tune within 120 days of the initial operation of, and within 24-months of each preceding tune-up.	No limit listed.		BACT-PSD	
RBLC	*WI-0331	WPL SHEBOYGAN FALLS ENERGY FACILITY	WI	01/22/2025	P07 5 Natural Gas Boiler Heaters	Natural Gas	Good combustion practices	117.65 lb/MMBtu		BACT-PSD	
RBLC	*WV-0029	HARRISON COUNTY POWER PLANT	WV	03/27/2018	Auxiliary Boiler	Natural Gas	Use of Natural Gas	9107 lb/hr		BACT-PSD	
RBLC	*WV-0031	MOCKINGBIRD HILL COMPRESSOR STATION	WV	06/14/2018	CT-1 & CT-2 - Solar Titan 130 Combustion Turbine/compressor	Natural Gas	Limited to natural gas.	1.01 LB CO2E/HP	12-MONTH ROLLING	BACT-PSD	
RBLC	*WV-0031	MOCKINGBIRD HILL COMPRESSOR STATION	WV	06/14/2018	WH-1 - Boiler	Natural Gas	Limited to natural gas; and tune-up the boiler once every five years.	No limit listed.		BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY POWER PLANT	WV	09/18/2018	Auxiliary Boiler	Natural Gas/Ethane	Use of Natural Gas	14768 lb/hr		BACT-PSD	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	Natural Gas	Use of low carbon fuels, oxidation catalyst, and efficient design.	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	ULSD or ULSK	Use of low carbon fuels, oxidation catalyst, and efficient design.	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Use of low carbon fuels, oxidation catalyst, and efficient design.	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	185 MMBtu/hr auxiliary boiler	Natural Gas	Use of low carbon fuels, oxidation catalyst, and efficient design.	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Use of low carbon fuels, oxidation catalyst, and efficient design.	No limit listed.		BACT	

End of table

Appendix C-2c
BACT Analysis Database Search Results: Auxiliary Boiler, CO
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Boilers and Heaters	ULSD	No control listed	5	LB/1,000 GAL	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Three (3) Package Boilers	Natural Gas	No control listed	50	PPMV 3-hr avg @ 3% o2	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Five (5) Waste Heat Boilers	Natural Gas	No control listed	50	PPMV 3-hr avg @ 15 % o2	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Startup Heater	Natural Gas	Limited Use (200 hr/yr)	0.082	lb/MMBtu	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Boilers and Heaters (natural gas and diesel fired)	Natural Gas and Diesel	Good Combustion Practices	0.0384	lb/MMBtu (ULSD) 3-hour average	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Two (2) Heaters (natural gas and diesel fired)	Natural Gas	Good Combustion Practices	0.0384	lb/MMBtu (ULSD) 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Two (2) Buyback Gas Bath Heaters and Three (3) Operations Camp Heaters	Natural Gas	Good Combustion Practices, Clean Fuels, and Limited Operation of 500 hours per year per heater	0.087	lb/MMBtu 3-hour average	BACT-PSD	
RBLC	AL-0307	ALLOYS PLANT	AL	10/09/2015	PACKAGE BOILER	NATURAL GAS	GCP	0.08	lb/MMBtu	BACT-PSD	
RBLC	AL-0307	ALLOYS PLANT	AL	10/09/2015	2 CALP LINE BOILERS	NATURAL GAS	GCP	0.08	lb/MMBtu	BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	90.5 MMBtu/hr Aux Boiler	Natural Gas	No control listed	0.037	lb/MMBtu	BACT-PSD	
RBLC	AL-0329	COLBERT COMBUSTION TURBINE PLANT	AL	09/21/2021	Three Gas Heaters	Natural Gas	No control listed	0.08	lb/MMBtu 3 hour avg	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, VACUUM DEGASSER	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER SN-26, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	PREHEATER, GALVANIZING LINE SN-28	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	PREHEATERS, GALVANIZING LINE SN-28 and SN-29	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, ANNEALING PICKLE LINE	NATURAL GAS	Combustion of Natural gas and Good Combustion Practice	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILERS SN-26 AND SN-27, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	HPU Steam Reformer	Fuelgas	No control listed	0.035	lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	Fractionator Feed Heater	Fuelgas	No control listed	0.035	lb/MMBtu	BACT-PSD	
RBLC	AR-0167	LION OIL COMPANY	AR	12/01/2020	SN-805N - #4 Vacuum Furnace	Natural Gas	Good combustion practice	7.4	lb/hr 3-hour average	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Galvanizing Line #2 Furnace	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Decarburizing Line Furnace Section	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-142 Vacuum Degasser Boiler	Natural Gas	Good combustion practices	0.075	lb/MMBtu	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-233 Galvanizing Line Boilers	Natural Gas	Good combustion practices	0.084	lb/MMBtu	BACT-PSD	
RBLC	AR-0172	NUCOR STEEL ARKANSAS	AR	09/01/2021	SN-202, 203, 204 Pickle Line Boilers	Natural Gas	Good Combustion Practice	0.084	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Hydrogen Plant #2 Reformer Furnace		Combustion of Natural gas and Good Combustion Practice	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Reformer Natural Gas Fired	Natural Gas	Scrubber, Low Combustion of Natural Gas, and Good Combustion Practices NOX Burners	543.2	TPY	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Furnace Dedusting		Combustion of Natural Gas and Good Combustion Practices	0.08	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Galvanizing Line Boilers #1 and #2	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0824	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Galvanizing Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0824	lb/MMBtu	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Auxiliary Boiler, 99.8 MMBtu/hr	Natural gas	Proper combustion prevents CO	0.08	lb/MMBtu	BACT-PSD	
RBLC	FL-0361	BROOKSVILLE POWER PLANT	FL	06/21/2017	Woody Biomass-Fueled Grate Suspension Boiler	Woody biomass	Good combustion practices. This project allowed the removal of an existing oxidation catalyst system that did not perform as well as expected	575	PPMVD@ 3% O2 720-operating-hr, rolling, incl. ssm	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	99.8 MMBtu/hr auxiliary boiler	Natural gas	Clean fuel	0.08	lb/MMBtu	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	60 MMBtu/hour Auxiliary Boiler	Natural Gas	Good combustion practices and low-NOx burners	0.08	lb/MMBtu	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	60 MMBtu/hour Auxiliary Boiler	Natural Gas	Good combustion practices and low-NOx burners	0.08	lb/MMBtu	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Auxiliary Boiler	Natural Gas	Good combustion practices	0.037	lb/MMBtu 3-hour average	BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Auxiliary Boiler	Natural Gas	Good combustion practice	0.037	lb/MMBtu 3-hour	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Auxiliary Boiler	Natural Gas	Good burner design and good combustion practices.	0.037	POUNDS/MMBTU rolling 3-operating hour	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Boilers	Natural Gas	Oxidation Catalysts, GCP and good burner design	0.0013	lb/MMBtu 3-hr avg	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Startup Heater	Natural Gas	GCP and good burner design	0.0194	lb/MMBtu	3-hr avg	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	STARTUP HEATER EU-002	NATURAL GAS	GOOD COMBUSTION PRACTICES	2.556	lb/hr	3 hour average	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	NATURAL GAS AUXILIARY BOILERS (EU-012A, EU-012B, EU-012C)	NATURAL GAS	GOOD COMBUSTION PRACTICES AT ALL TIMES THE BOILERS ARE IN OPERATION	37.22	LB/MMCF EACH	3 hour average	BACT-PSD	
RBLC	IN-0285	WHITING CLEAN ENERGY, INC.	IN	08/02/2017	Space Heaters		No control listed	0.038	lb/MMBtu	when combusting natural gas	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Coal milling and drying heater EU-1007	natural gas	Unit shall burn only natural gas and process fuel gas.□ Unit shall use good combustion practices including an oxygen trim system	0.0365	lb/MMBtu		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Treat gas heater EU-2002	natural gas	Unit shall burn only natural gas and process fuel gas.□ Unit shall use good combustion practices including an oxygen trim system	0.0365	lb/MMBtu		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Vacuum column feed heater EU-2003	natural gas	Unit shall burn only natural gas and process fuel gas.□ Unit shall use good combustion practices including an oxygen trim system	0.0365	lb/MMBtu		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Boiler EU-6000	natural gas	Unit shall burn only natural gas and process fuel gas.□ Unit shall use good combustion practices including an oxygen trim system	0.0365	lb/MMBtu		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Feed heater EU-2001	natural gas	Unit shall burn only natural gas and process fuel gas.□ Unit shall use good combustion practices including an oxygen trim system	0.0365	lb/MMBtu		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Fractionator heater EU-2004	natural gas	Unit shall burn only natural gas and process fuel gas.□ Unit shall use good combustion practices including an oxygen trim system	0.0365	lb/MMBtu		BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	startup heater EU-002	natural gas	shall combust natural gas, shall be controlled by good combustion practices	200	HR/YR	twelve consecutive month period	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	natural gas-fired auxiliary boilers EU 012A and EU 012B	natural gas	The natural gas-fired auxiliary boilers shall combust natural gas	37.22	LB/MMCF	three-hour average	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Boiler (CC-BOIL)	natural gas	good combustion practices	61	LB/MMSC F		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Galvanizing Line	natural gas	good combustion practices	84	LB/MMSC F		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Sheet Metal Coating Line	natural gas	good combustion practices	84	LB/MMSC F		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Auxiliary Boiler	Natural gas	No control listed	0.037	LB PER MMBTU	based on a 3-hr average	BACT-PSD	
RBLC	*IN-0399	HEIDELBERG MATERIALS US CEMENT LLC	IN	03/07/2025	Finish mill air heaters (E51HG01 and E52HG01)	Natural gas	Good Combustion Practices	0.2	lb/MMBtu		BACT-PSD	
RBLC	KS-0030	MID-KANSAS ELECTRIC COMPANY, LLC - RUBART STATION	KS	03/31/2016	Indirect fuel-gas heater		No control listed	0.16	lb/hr	excludes startup, shutdown & malfunction	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B306	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2502	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B3401	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	FCCU Charge Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	3-hour rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	Cogen Auxiliary Air Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	New Crude Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B307	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B140	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2701	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2031	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 15-01 - Natural Gas Direct-Fired Space Heaters, Process Water Heaters, & Air Makeup Heaters	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	84	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-01 - Group 1 Car Bottom Furnaces #1 - #3	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	84	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-02 - Austenitizing Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	84	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-02 - Group 2 Car Bottom Furnaces A & B	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	84	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-02 - Ingot Car Bottom Furnaces #1-#4	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	84	LB/MMSC F		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-05 - Steckel Mill Coiling Furnaces #1 & #2	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	84	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-03 - Tempering Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	84	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Complex Makeup Air Units (EP 21-19)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	84	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Vacuum Degasser Boiler (EP 20-13)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	61	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Pickle Line #2 â€” Boiler #1 & #2 (EP 21-04 & EP 21-05)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	84	LB/MMSC each F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	84	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Radiant Tube Furnace (EP 21-08B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	84	LB/MMSC F 3-hr average		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Annealing Furnaces (15) (EP 21-15)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	84	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Preheat Furnace (EP 21-08A)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan.	84	LB/MMSC F 3-hr average		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	84	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	A-Line Tunnel Furnace (EP 02-01)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	84	LB/MMSC F 3-hr average		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	B-Line Tunnel Furnace (EP 02-02)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	84	LB/MMSC F 3-hr average		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Heated Transfer Table Furnace (EP 02-03)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	84	LB/MMSC F 3-hr average		BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 037 - Sow Dryer	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	1.46	lb/hr monthly average		BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041a - Direct-Fired Building Heating Systems	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	4.45	lb/hr monthly average		BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041b - Indirect-Fired Building Heating Systems < 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.25	lb/hr monthly average		BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041c - Indirect-Fired Building Heating Systems > 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	1.61	lb/hr monthly average		BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Gasifier Start-up Preheat Burners	Natural gas	good engineering practices, good combustion technology, and use of clean fuels	No limit listed.			BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	WSA Preheat Burners	Natural Gas	good engineering design and practices and use of clean fuels	No limit listed.			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Auxiliary boilers	natural gas	good combustion practices	No limit listed.			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Regenerative Heaters	natural gas	good combustion practices	No limit listed.			BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	Dryer Regenerator Heater - 005	process fuel gas	good combustion practices and proper operation and maintenance	0.082	LB/MM BTU	three one-hour test average	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler A and B (010 and 011)	natural gas/fuel gas	good combustion practices and proper operation and maintenance	0.082	LB/MM BTU	three one-hour test average	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler B-201	natural gas/fuel gas	good combustion practices and proper operation and maintenance	0.037	LB/MM BTU	three one-hour test average	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Reactor Charge Heater - 53B001	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.83	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Regeneraton Heater - 51B001	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	5	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002A	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	2.67	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002B	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	2.67	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002C	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	2.67	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002D	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	2.67	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002E	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	2.67	lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0335	JOYCE MILL	LA	10/04/2018	EQT003 Kipper Boiler No. 1 (74A)	wood residue	No control listed	105.53	lb/hr	(not changed)	BACT-PSD	
RBLC	LA-0335	JOYCE MILL	LA	10/04/2018	EQT0005 McBurney Boiler No. 4 (75A)	wood residue	No control listed	279.12	lb/hr		BACT-PSD	
RBLC	LA-0349	DRIFTWOOD LNG FACILITY	LA	07/10/2018	Hot Oil Heaters (5)	natural gas	Good Combustion Practices	No limit listed.			BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	HGO Hydtreater Low Pressure Feed Heater (13-74, EQT0158)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed.		BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	Sats Gas Hot Oil Heater (92-80, EQT0167)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed.		BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	LSR Hydrotreater Stripper Reboiler (101-85, EQT0169)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed.		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Hot Oil Heaters 1 and 2	Natural Gas	Good combustion practices and compliance with the applicable provisions of 40 CFR 63 Subpart DDDDD	0.037	lb/MMBtu	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	PR Waste Heat Boiler	Natural Gas	Good combustion practices and oxidation catalyst.	26.21	lb/hr	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Auxiliary Boiler	Natural Gas	Good combustion practices; compliance with 40 CFR 63 Subpart DDDDD	0.05	LB/MM BTU	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	55-22 - PAO Thermal Oxidizer	Natural Gas	Use of good thermal oxidizer design and implementation of good combustion practices	0.19	lb/hr hourly maximum	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	02-22 - AO-5 Syltherm Furnace	Natural Gas	Use of good operating practices	10.57	lb/hr hourly maximum	BACT-PSD	
RBLC	LA-0398	CAMERON LNG FACILITY	LA	09/19/2023	Hot Oil Heaters (EQT0111, EQT0112, EQT0113)	natural gas	Proper burner design and operations□ Good combustion practices□ Compliance with 40 CFR 63 Subpart DDDDD	0.037	LB/MM BTU annual	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-1 - Boiler A	Natural Gas and/or hydrogen	Good combustion practices	10.86	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-2 - Boiler B	Natural Gas and/or hydrogen	Good Combustion practices	10.86	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-3 - Boiler C	Natural Gas and/or hydrogen	Good Combustion practices	10.86	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-4 - Boiler D	Natural Gas and/or hydrogen	Good Combustion practices	10.86	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-1 - Cracking Furnace A	Natural Gas and/or hydrogen	Good combustion practices	5	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-2 - Cracking Furnace B	Natural Gas and/or hydrogen	Good combustion practices	5	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-3 - Cracking Furnace C	Natural Gas and/or hydrogen	Good combustion practices	5	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-4 - Cracking Furnace D	Natural Gas and/or hydrogen	Good combustion practices	5	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-17 - Cracking Furnace E	Natural Gas and/or hydrogen	Good combustion practices	5	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	5H-1 - Hydrochloric Acid Production Furnace - 5	Natural Gas	Good combustion practices	5.67	lb/hr	BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	POx Unit Start-up Burner (EQT0006)	natural gas	Use of gaseous fuels (fuel gas and/or natural gas).□ Good combustion practices.□ Proper equipment (burner) design/operation.□ Compliance with 40 CFR 63 Subpart DDDDD	0.082	LB/MM BTU	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	AUXILIARY BOILER	NATURAL GAS	GOOD COMBUSTION PRACTICES	0.037	lb/MMBtu 3-hour block average	BACT-PSD	
RBLC	MI-0420	DTE GAS COMPANY--MILFORD COMPRESSOR STATION	MI	06/03/2016	FGAUXBOILERS	Natural gas	Good combustion practices and clean burn fuel (pipeline quality natural gas)	0.08	lb/MMBtu test protocol	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUFLTOS1 in FGTOH (Thermal Oil System for Thermally Fused Lamination Lines)	Natural gas	Good design and operation	0.082	lb/MMBtu test protocol will specify avg time	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUTOH (In FGTOH)--Thermal Oil Heater	Natural gas	Good design and operation	0.082	lb/MMBtu test protocol will specify avg time.	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Thermal Energy Plant (EUENERGY in FGDRYERTO)	Wood-derived fuel & biomass	Good combustion practices and RTO1.	36.3	lb/hr test protocol will specify avg. time	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUAUXBOILER (Auxiliary Boiler)	natural gas	Good combustion practices.	0.04	lb/MMBtu test protocol will specify avg time	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGFUELHTR (Two fuel pre-heaters identified as EUFUELHTR1 & EUFUELHTR2)	Natural gas	Good combustion practices.	2.22	lb/hr hourly; each unit	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUFUELHTR (Fuel pre-heater)	Natural gas	Good combustion practices.	0.41	lb/hr test protocol will specify avg time	BACT-PSD	

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RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUAUXBOILER (Auxiliary boiler)	natural gas	Good combustion practices.	0.077	lb/MMBtu	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUENERGY in FGDRYERRTO (Thermal Energy Plant)	Wood derived fuel and biomass	Good combustion practices and RTO1.	36.3	lb/hr	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUTOH in FGTOH	Natural gas	Good design and operation.	0.082	lb/MMBtu	test protocol shall specify	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFLTOS1 in FGTOH	Natural gas	Good design and operation.	0.082	lb/MMBtu	test protocol shall specify	BACT-PSD	
RBLC	MI-0426	DTE GAS COMPANY - MILFORD COMPRESSOR STATION	MI	03/24/2017	FGAUXBOILERS (6 auxiliary boilers EUAUXBOIL2A, EUAUXBOIL3A, EUAUXBOIL2B, EUAUXBOIL3B, EUAUXBOIL2C, EUAUXBOIL3C)	Natural gas	Good combustion practices and clean burn fuel (pipeline quality natural gas).	84	LB/MMSC F	each boiler	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.08	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.08	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUAUXBOILER: Auxiliary Boiler	Natural gas	Good combustion practices	0.075	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR1: Natural gas fired fuel heater	Natural gas	Good combustion controls.	0.77	lb/hr	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR2: Natural gas fired fuel heater	Natural gas	Good combustion controls	0.14	lb/hr	hourly	BACT-PSD	
RBLC	MI-0440	MICHIGAN STATE UNIVERSITY	MI	05/22/2019	FGFUELHEATERS	natural gas	Good combustion practices.	0.08	lb/MMBtu	hourly; each heater	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUAUXBOILER--natural gas fired auxiliary boiler rated at <= 99MMBTU/H	Natural gas	Good combustion practices	50	PPM	@3%o2; hourly	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGAUXBOILER	Natural gas	Good combustion practices	0.037	lb/MMBtu	hourly; each boiler	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGPREHEAT	natural gas	Good combustion practices	0.037	lb/MMBtu	hourly; each unit	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUAUXBOILER	Natural gas	Good combustion practices	0.04	lb/MMBtu	hourly	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGFUELHTR (2 fuel pre-heaters)	Natural gas	Good combustion practices	1.11	lb/hr	hourly; each fuel heater	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUAUXBOILER--nat gas fired auxiliary boiler	Natural gas	Good combustion practices.	50	PPM	at 3% o2; hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal energy plant (EUENERGY in FGDRYERRTO)	wood-derived fuel and biomass	Good combustion practices and RTO1	36.3	lb/hr	hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil heater (EUTOH in FGTOH)	Natural gas	Good design and operation	0.082	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil system for thermally fused lamination lines (EUFLTOS1 in FGTOH)	Natural gas	Good design and operation	0.082	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Good combustion practices	0.08	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.08	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUAUXBOILER--natural-gas fired auxiliary boiler, rated at less than or equal to 99 MMBTU/H	Natural gas	Good combustion practices.	50	PPM	PPMVD AT 3%O2; HOURLY	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Auxiliary Boiler firing natural gas	natural gas	Use of good combustion practices and use of natural gas a clean burning fuel	2.88	lb/hr	AV OF THREE ONE H STACK TESTS	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	AUXILIARY BOILER	Natural GAS	USE OF NATURAL GAS A CLEAN BURNING FUEL AND GOOD COMBUSTION PRACTICES	3.61	lb/hr	AV OF THREE ONE H STACK TESTS INITIAL V	BACT-PSD	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Auxiliary boiler	natural gas	good combustion practice	0.0375	lb/MMBtu	1 H	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Auxiliary Boiler (B001)	Natural gas	Good combustion controls	1.87	lb/hr		BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Auxiliary Boiler (B001)	Natural gas	Good combustion controls and natural gas/ULSD	7.92	lb/hr		BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Startup Heater (B001)	Natural gas	good combustion control (i.e., high temperatures, sufficient excess air, sufficient residence times, and good air/fuel mixing)	8.24	lb/hr		BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Auxiliary Boiler (B001)	Natural gas	Good combustion controls	2.08	lb/hr		BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Auxiliary Boiler (B001)	Natural gas	good combustion controls	2.08	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Auxiliary Boiler (B001)	Natural gas	Gas combustion control	10.18	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Fuel Gas Heaters (2 identical, P007 and P008)	Natural gas	Combustion control	0.83	lb/hr		BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Auxiliary Boiler (B001)	Natural gas	Good combustion controls	0.99	lb/hr		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B001)	Natural gas	Good combustion practices	1.67	lb/hr		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B002)	Natural gas	Good combustion practices	2.48	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace #2 (P018)	Natural Gas	Use natural gas, use of baffle type burners, good combustion practices and design	6.16	lb/hr		BACT-PSD	

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RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace (P001)	Natural Gas	Use of natural gas, use of baffle type burners, good combustion practices and design	7.84	lb/hr		BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Ladle Preheaters (P002, P003 and P004)	Natural Gas	Good combustion practices and the use of natural gas	0.521	lb/hr		BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Startup boiler (B001)	Natural Gas	good combustion practices and the use of natural gas	1.25	lb/hr		BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Process gas heater (P001)	Natural Gas	Good combustion practices and the use of natural gas	11.17	lb/hr		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	45.6 MMBtu/hr Natural Gas-Fired Nitrogen Vaporizers: B029 through B032	Natural gas	Good combustion practices and the use of natural gas	8.76	T/YR	PER ROLLING 12 MONTH PERIOD COMBINED	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	29.4 MMBtu/hr Natural Gas-Fired Boilers: B001 through B028	Natural gas	Good combustion practices and the use of natural gas	33	T/YR	PER ROLLING 12 MONTH PERIOD B001 TO B014	BACT-PSD	
RBLC	OK-0166	TULSA RFNRY WEST	OK	04/20/2015	PROCESS HEATER	RFG(RefineryFuelGas)	ULTRA LOW-NOx BURNERS.	0.04	lb/MMBtu	3-HR	BACT-PSD	
RBLC	OK-0166	TULSA RFNRY WEST	OK	04/20/2015	PROCESS HEATER	RFG(RefineryFuelGas)	ULTRA LOW-NOx BURNERS.	0.04	lb/MMBtu	3-HR	BACT-PSD	
RBLC	OK-0167	TULSA RFNRY EAST	OK	04/20/2015	PROCESS HEATER	REFINERY FUEL GAS	ULTRA LOW-NOx BURNERS AND GAS FUEL	0.04	lb/MMBtu		BACT-PSD	
RBLC	OK-0167	TULSA RFNRY EAST	OK	04/20/2015	PROCESS HEATER	RFG(Refinery Fuel Gas)	ULTRA LOW-NOx BURNERS AND GAS FUEL	0.04	lb/MMBtu		BACT-PSD	
RBLC	OK-0168	SEMINOLE GNRTNG STA	OK	05/05/2015	NATURAL GAS-FIRED BOILER (<100MMBTUH)	NATURAL GAS	NO CONTROLS FEASIBLE;GOOD COMBUSTION PRACTICES	0.0075	lb/MMBtu	3-HOUR AVERAGE (TEST)	BACT-PSD	
RBLC	OK-0173	CMC STEEL OKLAHOMA	OK	01/19/2016	Heaters (Gas-Fired)	Natural Gas	Natural Gas Fuel.	0.084	lb/MMBtu		BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Auxiliary Boiler	Natural Gas	Good combustion practices	0.06	lb/MMBtu		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Auxiliary Boiler	Natural gas	No control listed	0.037	lb/MMBtu		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Auxiliary boiler	Natural Gas	ULSD and good combustion practices	0.037	lb/MMBtu	AVG OF 3 1-HR TEST RUNS	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Auxiliary Boiler	Natural Gas	No control listed	0.037	lb/MMBtu		BACT-PSD	
RBLC	*PA-0316	RENOVO ENERGY CENTER, LLC	PA	01/26/2018	Auxiliary Boiler	Natural Gas	No control listed	0.036	LB	MMBTU	BACT-PSD	
RBLC	*PA-0319	RENAISSANCE ENERGY CENTER	PA	08/27/2018	NATURAL GAS FIRED AUXILIARY BOILER	Natural Gas	Lo-NOx burners, Flue Gas Recirculation, good combustion practices, proper operation and maintainance	0.055	lb/MMBtu	HR	BACT-PSD	
RBLC	SC-0192	CANFOR SOUTHERN PINE - CONWAY MILL	SC	05/21/2019	Boiler No. 2	Natural Gas	Work Practice Standards	0.0375	lb/MMBtu		BACT-PSD	
RBLC	TX-0694	INDECK WHARTON ENERGY CENTER	TX	02/02/2015	heater	natural gas	No control listed	0.04	lb/MMBtu	1 HOUR	BACT-PSD	
RBLC	TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TX	06/18/2015	Commercial/Institutional Size Boilers (<100 MMBtu) & natural gas	natural gas	No control listed	50	PPM	ROLLING 3-HR AVERAGE	BACT-PSD	
RBLC	TX-0755	RAMSEY GAS PLANT	TX	05/21/2015	Hot Oil Heaters and Regeneration Heaters	Residue gas equivalent to natural gas	Good combustion practices and firing of residue gas with low carbon content	50	PPMVD @ 3% O2		BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	50	PPMVD @ 3% O2		BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	50	PPMVD @ 3% O2		BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	50	PPMVD @ 3% O2		BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-2001 Kero HDT Charge Heater and F-2002 Kero HDT Stripper Reboiler	NATL GAS AND REFINERY GAS	good combustion and the use of gaseous fuel	0.074	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-3001 Diesel DHDt Charge Heater and F-3002 Diesel DHDt Stripper Reboiler	NATL AND REFINERY GAS	good combustion and the use of gaseous fuel	0.074	lb/MMBtu	HOURLY	BACT-PSD	
RBLC	TX-0851	RIO BRAVO PIPELINE FACILITY	TX	12/17/2018	Thermal Oxidizer	NATL GAS	Natural Gas / Clean Fuel, good combustion practices.	0.082	lb/MMBtu		BACT-PSD	
RBLC	TX-0863	POLYETHYLENE 7 FACILITY	TX	09/03/2019	Furnace	natural gas	GOOD COMBUSTION PRACTICES	50	PPMV	3% O2	BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	Heaters	natural gas	Good combustion practice and proper design.	50	PPMVD	3% O2	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	Water Bath Heater	NATURAL GAS	Good combustion practices	50	PPMVD	3% O2	BACT-PSD	
RBLC	TX-0964	NEDERLAND FACILITY	TX	10/05/2023	HEATERS	NATURAL GAS	Good combustion practices and fire hydrogen-rich plant fuel gas	50	PPMVD	3% O2	BACT-PSD	
RBLC	*TX-0996	SECONDARY ALUMINUM PRODUCTION FACILITY	TX	05/27/2025	#NAME?	NATURAL GAS	CLEAN FUEL. GOOD COMBUSTION PRACTICES. emissions are primarily from natural gas combustion which are kept separate from the melting emissions	No limit listed.			BACT-PSD	

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RBLC	*TX-0996	SECONDARY ALUMINUM PRODUCTION FACILITY	TX	05/27/2025	ROTARY FURNACE	NATURAL GAS	Add-on control devices have not historically been required for VOC and CO control for sources of this type at Secondary Aluminum Production Facilities. Good operating practices will be used to minimize emissions of VOC and CO.	No limit listed.			BACT-PSD	
RBLC	*TX-0998	LAUNCH SITE ONE	TX	07/16/2025	CHEMICAL STEAM GENERATION	LNG	Good design, operating practices, clean fuel (natural gas) stream vented to flare during various stages of testing , Strict operating procedures that reduce burning of excess fuel or repeat tests also serve to reduce potential emissions of all pollutants. CO emission factor from NASA's Chemical Equilibrium with Applications computer model. 21.60 lb/sec.	No limit listed.			BACT-PSD	
RBLC	*TX-0999	SEMICONDUCTOR MANUFACTURING FACILITY	TX	07/07/2025	BOILERS	NATURAL GAS	BEST COMBUSTION PRACTICES, CLEAN FUEL,	50	PPMV	3% O2	BACT-PSD	
RBLC	WI-0276	LOUISIANA-PACIFIC CORPORATION	WI	04/02/2015	B11 & B12 Boilers	Wood Waste	Good Combustion Practices	52.5	lb/hr		BACT-PSD	
RBLC	WI-0276	LOUISIANA-PACIFIC CORPORATION	WI	04/02/2015	B21 & B22 Boilers	Wood Waste	Good Combustion Practices	52.5	lb/hr		BACT-PSD	
RBLC	WI-0283	AFE, INC. 's LCM PLANT	WI	04/24/2018	B01-B12, Boilers	Natural Gas	Ultra-low NOx Burners, Flue Gas Recirculation and Good Combustion Practices	25	PPMVD		BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. -ENERGY PLANT	WI	04/24/2018	B13-B24 & B25-B36 Natural Gas-Fired Boilers	Natural Gas	Ultra-Low NOx Burners, Flue Gas Recirculation, and Good Combustion Practices	25	PPMVD		BACT-PSD	
RBLC	WI-0291	GRAYMONT WESTERN LIME-EDEN	WI	01/28/2019	P05 Natural Gas Fired Line Heater	Natural Gas	Good Combustion Practices	0.082	lb/MMBtu		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Auxiliary Boiler (B02)	Natural Gas	Oxidation Catalyst and operate and maintain boiler according to the manufacturer's recommendations	0.0037	lb/MMBtu		BACT-PSD	
RBLC	WI-0306	WPL- RIVERSIDE ENERGY CENTER	WI	02/28/2020	Temporary Boiler (B98A)	Natural Gas	Shall be operated for no more than 500 hours and combust only pipeline quality natural gas.	0.04	lb/MMBtu	HEAT INPUT	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Boiler; S02/B02	natural gas	(a) An oxidation catalyst shall be used to control emissions from B02 while B02 is in operation. (b) The permittee shall operate and maintain B02 according to the manufacturer's recommendations.	0.0037	lb/MMBtu		BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Heaters: S04/P04 and S05/P05	natural gas	(a) The permittee shall operate and maintain according to the manufacturer's recommendations. (b) The permittee shall tune within 120 days of the initial operation, and within 24-months of each preceding tune-up. (c) CO emissions may not exceed 0.08 lb/MMBtu. (d) The permittee may only combust pipeline quality natural gas.	0.08	lb/MMBtu		BACT-PSD	
RBLC	*WI-0331	WPL SHEBOYGAN FALLS ENERGY FACILITY	WI	01/22/2025	P07 5 Natural Gas Boiler Heaters	Natural Gas	Good combustion practices	0.08	lb/MMBtu		BACT-PSD	
RBLC	*WV-0029	HARRISON COUNTY POWER PLANT	WV	03/27/2018	Auxiliary Boiler	Natural Gas	Good Combustion Practices	2.88	lb/hr		BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY POWER PLANT	WV	09/18/2018	Auxiliary Boiler	Natural Gas/Ethane	Good Combustion Practices	4.14	lb/hr		BACT-PSD	
CARB/SC AQMD	562449	US GOVT. VET. AFFAIRS MED CTR	CA	3/5/2018	39.9 MMBtu watertube boiler with low NOx burner and SCR	Natural Gas	SCR, low temp de-NOx, Haldor Topsoe, model dnx-1029. Ammonia injection, three 150 lb cylinders, feed forward	100	ppmvd	15 minute with 3% O2 correction	BACT, LAER	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	Natural Gas	Good combustion practices and oxidation catalyst.	0.037	lb/MMBtu		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	ULSD or ULSK	Good combustion practices	0.06	lb/MMBtu		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices and oxidation catalyst.	0.037	lb/MMBtu		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	185 MMBtu/hr auxiliary boiler	Natural Gas	Good combustion practices and oxidation catalyst.	0.037	lb/MMBtu		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices and oxidation catalyst.	0.037	lb/MMBtu		BACT	

End of table

Appendix C-2d
BACT Analysis Database Search Results: Auxiliary Boiler, SO2
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Two (2) Buyback Gas Bath Heaters and Three (3) Operations Camp Heaters	Natural Gas	Good Combustion Practices, Clean Fuels (NG), and Limited Operation of 500 hours per year per heater.	96	PPMV SULFUR IN FUEL	prior to completing treatment trains	BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	90.5 MMBtu/hr Aux Boiler	Natural Gas	No control listed.	0.002	lb/MMBtu	3 hour avg	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, VACUUM DEGASSER	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	5.88	X10^-4 lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	5.88	X10^-4 lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER SN-26, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	5.88	X10^-4 lb/MMBtu		BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	PREHEATER, GALVANIZING LINE SN-28	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	5.88	X10^-4 lb/MMBtu		BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	PREHEATERS, GALVANIZING LINE SN-28 and SN-29	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, ANNEALING PICKLE LINE	NATURAL GAS	Combustion of Natural gas and Good Combustion Practice	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILERS SN-26 AND SN-27, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	HPU Steam Reformer	Fuelgas	Low sulfur content fuel gas	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	Fractionator Feed Heater	Fuelgas	Low sulfur content fuel gas	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Galvanizing Line #2 Furnace	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Decarburizing Line Furnace Section	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Annealing Pickling Line Furnace Section	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-142 Vacuum Degasser Boiler	Natural Gas	Good combustion practices	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-233 Galvanizing Line Boilers	Natural Gas	Good combustion practices	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0172	NUCOR STEEL ARKANSAS	AR	09/01/2021	SN-202, 203, 204 Pickle Line Boilers	Natural Gas	Low Sulfur fuels	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Hydrogen Plant #2 Reformer Furnace		Combustion of Natural gas and Good Combustion Practice	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Reformer Natural Gas Fired	Natural Gas	Scrubber, Low Combustion of Natural Gas, and Good Combustion Practices NOX Burners,	32.2	TPY		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Furnace Dedusting		Combustion of Natural Gas and Good Combustion Practices	0.0004	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Galvanizing Line Boilers #1 and #2	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0006	lb/MMBtu		BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Galvanizing Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0006	lb/MMBtu		BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Auxiliary Boiler, 99.8 MMBtu/hr	Natural gas	Use of low-sulfur gas	2	GR. S/100 SCF GAS		BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Two natural gas heaters	Natural gas	Use of low-sulfur fuel	2	GR. S/100 SCF GAS		BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	Two natural gas heaters	Natural gas	Clean fuel	2	GRAINS S / 100 SCF		BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	99.8 MMBtu/hr auxiliary boiler	Natural gas	Clean fuels	No limit listed.			BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	60 MMBtu/hour Auxiliary Boiler	Natural Gas	Limited sulfur content in natural gas	No limit listed.			BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	60 MMBtu/hour Auxiliary Boiler	Natural Gas	Limited sulfur content in fuel	1.4	GR. S/100 SCF NG	fuel recordkeeping	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Auxiliary Boiler	Natural Gas	Use of only natural gas with a sulfur content of no greater than 0.5 grains (gr)/100 standard cubic feet (scf).	0.0014	POUNDS/MMBTU	rolling 3-operating hour	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Coal milling and drying heater EU-1007	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.005	GR/SCF	12 consecutive month fuel sulfur content	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Treat gas heater EU-2002	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.005	GR/DSCF	12 consecutive month average fuel sulfur	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Vacuum column feed heater EU-2003	natural gas	Unit shall burn only natural gas and process fuel gas.☐ Unit shall use good combustion practices including an oxygen trim system.	0.005	GR/SCF	12 consecutive month fuel sulfur content	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Boiler EU-6000	natural gas	Unit shall burn only natural gas and process fuel gas. □ Unit shall use good combustion practices including an oxygen trim system.	0.005	GR/SCF	12 consecutive month fuel sulfur content	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Feed heater EU-2001	natural gas	Unit shall burn only natural gas and process fuel gas. □ Unit shall use good combustion practices including an oxygen trim system.	0.005	GR/SCF	12 consecutive month fuel sulfur content	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Fractionator heater EU-2004	natural gas	Unit shall burn only natural gas and process fuel gas. □ Unit shall use good combustion practices including an oxygen trim system.	0.005	GR/SCF	12 consecutive month fuel sulfur content	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Boiler (CC-BOIL)	natural gas	good combustion practices and only pipeline quality natural gas fuel shall be combusted	0.0006	lb/MMBtu		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Galvanizing Line	natural gas	Only pipeline quality natural gas shall be combusted	0.0006	lb/MMBtu		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Sheet Metal Coating Line	natural gas	Only pipeline quality natural gas fuel shall be combusted	0.0006	lb/MMBtu		BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B306	Refinery Fuel Gas	Low Sulfur Fuel Gas	162	PPMV	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2502	Refinery Fuel Gas	Low Sulfur Fuel Gas	162	PPMV	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B3401	Refinery Fuel Gas	Low Sulfur Fuel Gas	162	PPMV	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	FCCU Charge Heater	Refinery Fuel Gas	Low Sulfur Fuel Gas	162	PPMV	3-hour rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	Cogen Auxiliary Air Heater	Refinery Fuel Gas	Low Sulfur Fuel Gas	162	PPMV	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	New Crude Heater	Refinery Fuel Gas	Low Sulfur Fuel Gas	162	PPMV	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B307	Refinery Fuel Gas	Low Sulfur Fuel Gas	162	PPMV	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B140	Refinery Fuel Gas	Low Sulfur Fuel Gas	162	PPMV	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2701	Refinery Fuel Gas	Low Sulfur Fuel Gas	162	PPMV	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2031	Refinery Fuel Gas	Low Sulfur Fuel Gas	162	PPMV	3 hr rolling average	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 15-01 - Natural Gas Direct-Fired Space Heaters, Process Water Heaters, & Air Makeup Heaters	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-01 - Group 1 Car Bottom Furnaces #1 - #3	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-02 - Austenitizing Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-02 - Group 2 Car Bottom Furnaces A & B	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-02 - Ingot Car Bottom Furnaces #1-#4	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-05 - Steckel Mill Coiling Furnaces #1 & #2	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-03 - Tempering Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Complex Makeup Air Units (EP 21-19)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Vacuum Degasser Boiler (EP 20-13)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Pickle Line #2 6" Boiler #1 & #2 (EP 21-04 & EP 21-05)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6	LB/MMSC F	each	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Radiant Tube Furnace (EP 21-08B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Annealing Furnaces (15) (EP 21-15)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Preheat Furnace (EP 21-08A)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	A-Line Tunnel Furnace (EP 02-01)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6	LB/MMSC F	3-hr average	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	B-Line Tunnel Furnace (EP 02-02)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6	LB/MMSC F	3-hr average	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Heated Transfer Table Furnace (EP 02-03)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6	LB/MMSC 3-hr average	BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Gasifier Start-up Preheat Burners	Natural gas	good engineering practices, good combustion technology, and use of clean fuels	No limit listed.		BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	WSA Preheat Burners	Natural Gas	good engineering design and practices and use of clean fuels	No limit listed.		BACT-PSD	
RBLC	LA-0349	DRIFTWOOD LNG FACILITY	LA	07/10/2018	Hot Oil Heaters (5)	natural gas	Good Combustion Practices and Use of low sulfur facility fuel gas	No limit listed.		BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	HGO Hydrotreater Low Pressure Feed Heater (13-74, EQT0158)	Refinery Fuel Gas	Use refinery fuel gas that meets requirements of 40 CFR 60 Subpart Ja	No limit listed.		BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	Sats Gas Hot Oil Heater (92-80, EQT0167)	Refinery Fuel Gas	Use refinery fuel gas that meets requirements of 40 CFR 60 Subpart Ja	No limit listed.		BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	LSR Hydrotreater Stripper Reboiler (101-85, EQT0169)	Refinery Fuel Gas	Use refinery fuel gas that meets requirements of 40 CFR 60 Subpart Ja	No limit listed.		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	PR Waste Heat Boiler	Natural Gas	Use of pipeline quality natural gas or fuel gas.	8.03	lb/hr	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUAUXBOILER (Auxiliary Boiler)	natural gas	Good combustion practices and the use of pipeline quality natural gas.	0.6	LB/MMSC based on fuel receipt records	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGFUELHTR (Two fuel pre-heaters identified as EUFUELHTR1 & EUFUELHTR2)	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	2000	GR/MMSC based upon fuel receipt records.	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (North Plant): Auxiliary Boilder	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	1.8	LB/MMSC monthly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	1.8	LB/MMSC monthly	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUAUXBOILER	Natural gas	Good combustion practices and the use of pipeline quality gas.	0.6	LB/MMSC based upon fuel receipt records	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGFUELHTR (2 fuel pre-heaters)	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	2000	GR/MMSC based upon fuel receipt records	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Good combustion practices and the use of pipeline quality natural gas.	1.8	LB/MMSC monthly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices, and the use of pipeline quality natural gas.	1.8	LB/MMSC monthly	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Auxiliary Boiler firing natural gas	natural gas	Use of natural gas a low sulfur fuel	0.12	lb/hr	OTHER CASE-BY-CASE	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	AUXILIARY BOILER	Natural GAS	USE OF NATURAL GAS A CLEAN BURNING LOW SULFUR FUEL	0.128	lb/hr	OTHER CASE-BY-CASE	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Auxiliary Boiler (B001)	Natural gas	natural gas/ULSD	0.15	lb/hr	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Auxiliary Boiler (B001)	Natural gas	Low sulfur fuel	0.06	lb/hr	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Auxiliary Boiler (B001)	Natural gas	low sulfur fuel	0.06	lb/hr	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Auxiliary Boiler (B001)	Natural gas	Pipeline natural gas fuel	0.28	lb/hr	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Fuel Gas Heaters (2 identical, P007 and P008)	Natural gas	Pipeline natural gas fuel	0.023	lb/hr	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B001)	Natural gas	Pipeline quality natural gas	0.022	lb/hr	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B002)	Natural gas	Pipeline quality natural gas	0.12	lb/hr	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace #2 (P018)	Natural Gas	Use of natural gas, good combustion practices and design	0.05	lb/hr	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace (P001)	Natural Gas	Use of natural gas, good combustion practices and design	0.07	lb/hr	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	5	GR/100 SCF	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Fuel total sulfur content will be less than or equal to 5 grains/100 dscf.	5	GR/100 SCF	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	5	GR/100 SCF	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-2001 Kero HDT Charge Heater and F-2002 Kero HDT Stripper Reboiler	NATL GAS AND REFINERY GAS	good combustion and the use of low sulfur gaseous fuel	162	PPMVD hourly	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-3001 Diesel DHDt Charge Heater and F-3002 Diesel DHDt Stripper Reboiler	NATL AND REFINERY GAS	good combustion and the use of gaseous fuel	162	PPMVD	BACT-PSD	
RBLC	TX-0845	ARKEMA BEAUMONT PLANT	TX	08/24/2018	HEATERS	NATL GAS	low sulfur fuel and minimization of sulfur in waste through good operating practices	5	GR/100 DSCF	BACT-PSD	
RBLC	TX-0863	POLYETHYLENE 7 FACILITY	TX	09/03/2019	Furnace	natural gas	LIMIT SULFUR IN FUEL	5	GR/100 DSCF	BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	Heaters	natural gas	Good combustion practice, clean fuel, and proper design	2	GR/100 SCF	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	TX-0973	SEADRIFT FACILITY	TX	05/03/2024	Pre-Filtration Heater	NATURAL GAS & PLANT GAS	Firing pipeline-quality natural gas and plant fuel gas	0.25	GR/100 DSCF	BACT-PSD	
RBLC	WI-0270	DAIRYLAND POWER COOP ALMA STATION	WI	06/13/2016	B27 - Auxilary Steam Boiler	Distillate fuel oil	Switch to ultra-low sulfur fuel oil (sulfur content no greater than 15 ppm, by weight)	No limit listed.	see below	BACT-PSD	
RBLC	WI-0283	AFE, INC. - LCM PLANT	WI	04/24/2018	B01-B12, Boilers	Natural Gas	Good Combustion Practices and the Use of Pipeline Quality Natural Gas	0.0006	lb/MMBtu	BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	B13-B24 & B25-B36 Natural Gas Fired Boilers	Natural Gas	Good Combustion Practices and The Use of Pipeline Quality Natural Gas	0.0006	lb/MMBtu	BACT-PSD	
BAAQMD	17.3.1	Bay Area	CA	8/4/2010	Boilers with greater than or equal to 50 MMBtu/hr heat input.		Natural gas or treated refinery gas fuel with <0.50 ppmv hydrogen sulfide and <100 ppmv total reuced sulfur, or natural gas or treated refinery gas fuel with <100 ppmv total reduced sulfur.	No limits given		BACT-PSD	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	Natural Gas	Use of pipeline quality natural gas, with ultra-low sulfur fuel oil as backup	No limit listed.		BACT	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	ULSD or ULSK	Use of pipeline quality natural gas, with ultra-low sulfur fuel oil as backup	No limit listed.		BACT	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Use of pipeline quality natural gas	No limit listed.		BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	185 MMBtu/hr auxiliary boiler	Natural Gas	Use of pipeline quality natural gas	No limit listed.		BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Use of pipeline quality natural gas	No limit listed.		BACT	

End of table

Appendix C-2e
BACT Analysis Database Search Results: Auxiliary Boiler, NOx
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	WSA Preheat Burners	Natural Gas	good engineering design and practices and use of clean fuels	No limit listed.	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Vacuum Degasser Boiler (EP 20-13)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. Also equipped with low-NOx burners.	35 LB/MMSC F	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Vacuum column feed heater EU-2003	natural gas	Unit shall burn only natural gas and process fuel gas. □ Unit shall use an ultra-low-NOx burner.	0.03 lb/MMBtu	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Two natural gas heaters	Natural gas	Must have NOx emission design value less than 0.1 lb/MMBtu	0.1 lb/MMBtu	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	Two natural gas heaters	Natural gas	Manufacturer certification	0.1 lb/MMBtu design value	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Two (2) Heaters (natural gas and diesel fired)	Natural Gas	Low-NOx Burners	0.154 lb/MMBtu (ULSD) 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Two (2) Buyback Gas Bath Heaters and Three (3) Operations Camp Heaters	Natural Gas	Low NOx Burners, Good Combustion Practices, Limited Operation of 500 hours per year per heater.	0.036 lb/MMBtu 3-hour average	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace (P001)	Natural Gas	Use of natural gas, use of low NOx burners, good combustion practices and design	7.84 lb/hr	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace #2 (P018)	Natural Gas	Use of natural gas, use of low NOx burners, good combustion practices and design	6.16 lb/hr	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Treat gas heater EU-2002	natural gas	Unit shall burn only natural gas and process fuel gas. □ Unit shall use an ultra-low-NOx burner.	0.03 lb/MMBtu	BACT-PSD	
RBLC	AL-0329	COLBERT COMBUSTION TURBINE PLANT	AL	09/21/2021	Three Gas Heaters	Natural Gas	No control listed.	0.011 lb/MMBtu 3 hour avg	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Three (3) Package Boilers	Natural Gas	Ultra Low NOx Burners	0.01 lb/MMBtu 30-day average	BACT-PSD	
RBLC	TX-0851	RIO BRAVO PIPELINE FACILITY	TX	12/17/2018	Thermal Oxidizer	NATL GAS	Low NOx burners and good combustion practices.	0.162 lb/MMBtu	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil system for thermally fused lamination lines (EUFLTOS1 in FGTOH)	Natural gas	Good design and combustion practices, low NOx burners	0.05 lb/MMBtu hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil heater (EUTOH in FGTOH)	Natural gas	Good design and combustion practices, low NOx burners	0.05 lb/MMBtu hourly	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Thermal Energy Plant (EUENERGY in FGDRYERRT0)	Wood-derived fuel & biomass	Good combustion practices and low NOx burners.	95 lb/hr test protocol will specify avg. time	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal energy plant (EUENERGY in FGDRYERRT0)	wood-derived fuel and biomass	Good combustion practices and low NOx burners	170 lb/hr hourly	BACT-PSD	
RBLC	WI-0306	WPL- RIVERSIDE ENERGY CENTER	WI	02/28/2020	Temporary Boiler (B98A)	Natural Gas	Low NOx burners, flue gas recirculation, shall be operated for no more than 500 hours, and shall combust only pipeline quality natural gas.	0.04 lb/MMBtu avg. over any consecutive 3-hr period	BACT-PSD	
RBLC	*WA-0349	HANFORD	WA	04/04/2013	steam generating boiler	diesel	Low NOx burners	0.09 lb/MMBtu 24-hr	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	STARTUP HEATER EU-002	NATURAL GAS	GOOD COMBUSTION PRACTICES	12.611 lb/hr 3 hour average	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	startup heater EU-002	natural gas	shall combust natural gas, shall be controlled by good combustion practices	200 HR/YR twelve consecutive month period	BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Startup Heater (B001)	Natural gas	Good combustion control (i.e., high temperatures, sufficient excess air, sufficient residence times, and god air/fuel mixing).	10 lb/hr	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Startup Heater	Natural Gas	Limited Use (200 hr/yr)	0.098 lb/MMBtu	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Startup Heater	Natural Gas	LNB, good burner design, and GCP	0.07 lb/MMBtu 3-hr avg	BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Startup boiler (B001)	Natural gas	Low-NOX burners, good combustion practices and the use of natural gas	0.634 lb/hr	BACT-PSD	
RBLC	IN-0285	WHITING CLEAN ENERGY, INC.	IN	08/02/2017	Space Heaters		No control listed.	0.05 lb/MMBtu units 1-6, combusting natural gas	BACT-PSD	
RBLC	AR-0167	LION OIL COMPANY	AR	12/01/2020	SN-842 - #12 Unit Distillate Hydrotreater	Natural Gas	Good combustion practice	5.3 lb/hr 3-hour average	BACT-PSD	
RBLC	AR-0167	LION OIL COMPANY	AR	12/01/2020	SN-811 - #9 Reformer Furnace	Natural Gas	Good combustion practice and CEMS for monitoring NOx emissions	9.1 lb/hr 3-hour average	BACT-PSD	
RBLC	AR-0167	LION OIL COMPANY	AR	12/01/2020	SN-810 - #9 Hydrotreater Furnace/Reboiler	Natural Gas	No control specified	12.7 lb/hr 3-hour average	BACT-PSD	
RBLC	AR-0167	LION OIL COMPANY	AR	12/01/2020	SN-808 - #7 FCCU Furnace	Natural Gas	Good combustion practice	2.8 lb/hr 3-hour average	BACT-PSD	
RBLC	AR-0167	LION OIL COMPANY	AR	12/01/2020	SN-805N - #4 Vacuum Furnace	Natural Gas	Ultra-low NOx burners and good combustion practice	6.5 lb/hr 3-hour average	BACT-PSD	
RBLC	AR-0167	LION OIL COMPANY	AR	12/01/2020	SN-805 - #4 Pre-Flash Reboiler	Natural Gas	Ultra-low NOx burners and good combustion practice	3.5 lb/hr 3-hour average	BACT-PSD	
RBLC	AR-0167	LION OIL COMPANY	AR	12/01/2020	SN-803 - #4 Pre-Flash Column Reboiler	Natural Gas	Ultra-low NOx burners and good combustion practice	1.9 lb/hr 3-hour average	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-233 Galvanizing Line Boilers	Natural Gas	Low Nox Burners	0.1 lb/MMBtu 3-hr	BACT-PSD	
RBLC	AR-0172	NUCOR STEEL ARKANSAS	AR	09/01/2021	SN-202, 203, 204 Pickle Line Boilers	Natural Gas	Low NOx burners	0.035 lb/MMBtu	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-142 Vacuum Degasser Boiler	Natural Gas	Low Nox Burners	0.035 lb/MMBtu	BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	Sats Gas Hot Oil Heater (92-80, EQT0167)	Refinery Fuel Gas	LNB	0.04 LB/MM BTU	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Regeneraton Heater - 51B001	Natural Gas	Ultra-Low NOx Burners (ULNB)	2.44 lb/hr hourly maximum	BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Regenerative Heaters	natural gas	good combustion practices	No limit listed.	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Reformer Natural Gas Fired	Natural Gas	Scrubber, Low Combustion of Natural Gas, and Good Combustion Practices NOX Burners,	383.3 TPY	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002E	Natural Gas	Ultra-Low NOx Burners (ULNB)	1.3 lb/hr hourly maximum	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002D	Natural Gas	Ultra-Low NOx Burners (ULNB)	1.3 lb/hr hourly maximum	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002C	Natural Gas	Ultra-Low NOx Burners (ULNB)	1.3 lb/hr hourly maximum	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002B	Natural Gas	Ultra-Low NOx Burners (ULNB)	1.3 lb/hr hourly maximum	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002A	Natural Gas	Ultra-Low NOx Burners (ULNB)	1.3 lb/hr hourly maximum	BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Reactor Charge Heater - 53B001	Natural Gas	Ultra-Low NOx Burners (ULNB)	0.4 lb/hr hourly maximum	BACT-PSD	
RBLC	OK-0166	TULSA RFNRY WEST	OK	04/20/2015	PROCESS HEATER	RFG(RefineryFuelGas)	ULTRA LOW-NOx BURNERS.	0.03 lb/MMBtu 3-hr	BACT-PSD	
RBLC	OK-0166	TULSA RFNRY WEST	OK	04/20/2015	PROCESS HEATER	RFG(RefineryFuelGas)	ULTRA LOW-NOx BURNERS.	0.03 lb/MMBtu 3-hr	BACT-PSD	
RBLC	OK-0167	TULSA RFNRY EAST	OK	04/20/2015	PROCESS HEATER	REFINERY FUEL GAS	ULTRA LOW-NOx BURNERS	0.03 lb/MMBtu	BACT-PSD	
RBLC	OK-0167	TULSA RFNRY EAST	OK	04/20/2015	PROCESS HEATER	RFG(Refinery Fuel Gas)	ULTRA LOW-NOx BURNERS AND GAS FUEL.	0.03 lb/MMBtu	BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Process gas heater (P001)	Natural gas	Low NOX burners, use of natural gas and good combustion practices	14.01 lb/hr	BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Process gas heater (P001)	Natural Gas	Low NOX burners, use of natural gas and good combustion practices	18.88 lb/hr	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	PREHEATERS, GALVANIZING LINE SN-28 and SN-29	NATURAL GAS	SCR, LOW NOX BURNERS, AND COMBUSTION OF CLEAN FUEL AND □ GOOD COMBUSTION PRACTICES	0.035 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	PREHEATER, GALVANIZING LINE SN-28	NATURAL GAS	SCR, LOW NOX BURNERS, AND COMBUSTION OF CLEAN FUEL AND GOOD COMBUSTION PRACTICES	0.035 lb/MMBtu	BACT-PSD	
RBLC	TX-0973	SEADRIFT FACILITY	TX	05/03/2024	Pre-Filtration Heater	NATURAL GAS & PLANT GAS	Ultra-low NOx burners. Meeting Tier I BACT of 0.01 lb NOx/MMBtu is not cost effective based on the following estimated \$/ton VOC removed in 2023 dollars: □ Burner retrofit to 0.01 lb NOx/MMBtu:\$39,038/ton NOx removed □ SCR and Low-NOx burners: >\$50,000/ton NOx □ removed	0.026 lb/MMBtu	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	PR Waste Heat Boiler	Natural Gas	SCR and LNB	14.41 lb/hr 12-month rolling average	BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	POx Unit Start-up Burner (EQT0006)	natural gas	Use of gaseous fuels (fuel gas and/or natural gas). □ Good combustion practices. □ Proper equipment (burner) design/operation.	0.098 LB/MM BTU	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Line Boiler	Natural Gas	Low NOx burners □ Combustion of clean fuel □ Good Combustion Practices	0.035 lb/MMBtu	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Pickle Line #2 â€” Boiler #1 & #2 (EP 21-04 & EP 21-05)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. Equipped with low-NOx burners.	50 LB/MMSC each F	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Galvanizing Line Boiler	Natural Gas	Low NOx burners □ Combustion of clean fuel □ Good Combustion Practices	0.035 lb/MMBtu	BACT-PSD	
RBLC	AL-0307	ALLOYS PLANT	AL	10/09/2015	PACKAGE BOILER	NATURAL GAS	LOW NOX BURNER □ FLUE GAS RECIRCULATION □ GCP	30 PPMVD 3% o2	BACT-PSD	
RBLC	*WI-0331	WPL SHEBOYGAN FALLS ENERGY FACILITY	WI	01/22/2025	P07 5 Natural Gas Boiler Heaters	Natural Gas	Good combustion practices, use of low NOx burners	0.05 lb/MMBtu	BACT-PSD	
RBLC	WI-0291	GRAYMONT WESTERN LIME-EDEN	WI	01/28/2019	P05 Natural Gas Fired Line Heater	Natural Gas	Good Combustion Practices	0.1 lb/MMBtu	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	New Crude Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.04 lb/MMBtu 30 day rolling average	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	natural gas-fired auxiliary boilers EU 012A and EU 012B	natural gas	The natural gas-fired auxiliary boilers shall combust natural gas	20.4 LB/MMCF	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Auxiliary Boiler (B02)	Natural Gas	Ultra-low NOx burners, flue gas recirculation, and operate and maintain B02 according to the manufacturerâ€™s recommendations.	0.011 lb/MMBtu	BACT-PSD	
RBLC	*PA-0319	RENAISSANCE ENERGY CENTER	PA	08/27/2018	NATURAL GAS FIRED AUXILIARY BOILER	Natural Gas	Lo-NOx burners, Flue Gas Recirculation, good combustion practices, proper operation and maintainance.	0.02 lb/MMBtu hr	LAER	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	NATURAL GAS AUXILIARY BOILERS (EU-012A, EU-012B, EU-012C)	NATURAL GAS	LOW NOX BURNERS WITH FLUE GAS RECIRCULATION AND GOOD COMBUSTION PRACTICES	20.4 LB/MMCF EACH 3 hour average	BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	LSR Hydrotreater Stripper Reboiler (101-85, EQT0169)	Refinery Fuel Gas	LNB	0.04 LB/MM BTU	BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Ladle Preheaters (P002, P003 and P004)	Natural gas	Good combustion practices and the use of natural gas	2.12 lb/hr	BACT-PSD	
RBLC	KS-0030	MID-KANSAS ELECTRIC COMPANY, LLC - RUBART STATION	KS	03/31/2016	Indirect fuel-gas heater		No control listed.	0.2 lb/hr excludes startup, shutdown & malfunction	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Hydrogen Plant #2 Reformer Furnace		Low NOx burners☐ Combustion of clean fuel☐ Good Combustion Practices	0.1 lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	HPU Steam Reformer	Fuelgas	Low NOx burners and low btu fuel gas	0.03 lb/MMBtu	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Sheet Metal Coating Line	natural gas	low NOx burners, good combustion practices and only pipeline quality natural gas shall be combusted	50 LB/MMSC F	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Galvanizing Line	natural gas	low NOx burners, good combustion practices, use of pipeline quality natural gas	50 LB/MMSC F	BACT-PSD	
RBLC	TX-0755	RAMSEY GAS PLANT	TX	05/21/2015	Hot Oil Heaters and Regeneration Heaters	Residue gas equivalent to natural gas	low NOx burners	0.045 lb/MMBtu	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Hot Oil Heaters 1 and 2	Natural Gas	LNB	0.06 lb/MMBtu	BACT-PSD	
RBLC	LA-0398	CAMERON LNG FACILITY	LA	09/19/2023	Hot Oil Heaters (EQT0111, EQT0112, EQT0113)	natural gas	Ultra-low NOx burners	0.01 LB/MM BTU annual	BACT-PSD	
RBLC	LA-0349	DRIFTWOOD LNG FACILITY	LA	07/10/2018	Hot Oil Heaters (5)	natural gas	ULNB and Good Combustion Practices	No limit listed.	BACT-PSD	
RBLC	TX-0955	INEOS OLIGOMERS CHOCOLATE BAYOU	TX	03/14/2023	HOT OIL HEATER	NATURAL GAS	Burner design for good combustion efficiency and to minimize NOx formation with a SCR system to further reduce NOx.	0.014 lb/MMBtu 1-hr	LAER	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	HGO Hydrtreater Low Pressure Feed Heater (13-74, EQT0158)	Refinery Fuel Gas	LNB	0.06 LB/MM BTU	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Heaters: S04/P04 and S05/P05	natural gas	(a) P04 and P05 shall be equipped with low-NOx burners.☐ (b) Only pipeline quality natural gas may be combusted in P04 and P05.☐ (c) The permittee shall operate and maintain P04 and P05 according to the manufacturer's recommendations.☐ (d) The permittee shall tune within 120 days of the initial operation, and within 24-months of each preceding tune-up.☐ (e) NOx emissions from P04 and P05 may not exceed 0.049 lb/MMBtu each.	0.049 lb/MMBtu	BACT-PSD	
RBLC	OK-0173	CMC STEEL OKLAHOMA	OK	01/19/2016	Heaters (Gas-Fired)	Natural Gas	Natural Gas Fuel	0.1 lb/MMBtu	BACT-PSD	
RBLC	TX-0845	ARKEMA BEAUMONT PLANT	TX	08/24/2018	HEATERS	NATL GAS	LOW NOX BURNERS, CLEAN FUEL	0.04 lb/MMBtu	BACT-PSD	
RBLC	TX-0861	BUCKEYE TEXAS PROCESSING CORPUS CHRISTI FACILITY	TX	08/29/2019	HEATERS	REFINER Y FUEL GAS	SCR	0.014 lb/MMBtu 1-hr	BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	Heaters	natural gas	Low NOx burners and good combustion practice.	0.04 lb/MMBtu	BACT-PSD	
RBLC	TX-0964	NEDERLAND FACILITY	TX	10/05/2023	HEATERS	NATURAL GAS	LOW NOX BURNERS	9 PPMVD	BACT-PSD	
RBLC	TX-0955	INEOS OLIGOMERS CHOCOLATE BAYOU	TX	03/14/2023	HEATER NO 2	NATURAL GAS	Burner design for good combustion efficiency and to minimize NOx formation.	0.01 lb/MMBtu 1-hr	LAER	
RBLC	TX-0694	INDECK WHARTON ENERGY CENTER	TX	02/02/2015	heater	natural gas	No control listed.	0.1 lb/MMBtu 1 hour	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Heated Transfer Table Furnace (EP 02-03)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. Equipped with low NOx burners (0.07 lb/MMBtu).	70 LB/MMSC F 3-hr average	BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Gasifier Start-up Preheat Burners	Natural gas	good engineering practices, good combustion technology, and use of clean fuels	No limit listed.	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Galvanizing Line Boilers #1 and #2	Natural Gas	Low NOx burners☐ Combustion of clean fuel☐ Good Combustion Practices	0.035 lb/MMBtu	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. This unit is equipped with a low-NOx burner.	70 LB/MMSC F	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Radiant Tube Furnace (EP 21-08B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. This unit is also equipped with a SCR/SNCR system to control emissions. During a cold start, SCR does not reach operating temperature for approximately 30 minutes. During this time, only low-NOx burners are controlling emissions of NOx. NSG estimates the unit may undergo 1 cold start every two (2) weeks.	7.5 LB/MMSC F 3-hr average	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Preheat Furnace (EP 21-08A)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. This unit is also equipped with a SCR/SNCR system to control emissions. During a cold start, SCR does not reach operating temperature for approximately 30 minutes. During this time, only low-NOx burners are controlling emissions of NOx. NSG estimates the unit may undergo 1 cold start every two (2) weeks.	7.5 LB/MMSC F 3-hr average	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Galvanizing Line #2 Furnace	Natural Gas	SCR, Low NOx burners□ Combustion of clean fuel□ Good Combustion Practices	0.035 lb/MMBtu	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Annealing Furnaces (15) (EP 21-15)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. This unit is equipped with low-NOx burners.	50 LB/MMSC F	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. This unit is also required to be equipped with low-NOx burners (0.07 lb/MMBtu).	50 LB/MMSC F	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Furnace Dedusting		Combustion of Natural Gas and Good Combustion Practices	0.0032 lb/MMBtu	BACT-PSD	
RBLC	TX-0863	POLYETHYLENE 7 FACILITY	TX	09/03/2019	Furnace	natural gas	Ultra low NOX burners and effluent gas recirculation	0.034 lb/MMBtu hourly	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Fuel Gas Heaters (2 identical, P007 and P008)	Natural gas	Low-NOx gas burner	0.3 lb/hr	BACT-PSD	
RBLC	*TX-1000	ANTELOPE ELK ENERGY CENTER	TX	08/14/2025	FUEL GAS HEATER	NATURAL GAS	Low NOx burners and firing pipeline-quality natural gas. RBLC searches for small fuel gas heaters (<10 MMBtu/hr) installed in the last 10 years used low NOx burners achieving emission limits ranging from 0.036 to 0.10 lb/MMBtu.	0.036 lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Fractionator heater EU-2004	natural gas	Unit shall burn only natural gas and process fuel gas.□ Unit shall use an ultra-low-NOx burner.	0.03 lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	Fractionator Feed Heater	Fuelgas	Low NOx burner and low btu fuel gas	0.03 lb/MMBtu	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Five (5) Waste Heat Boilers	Natural Gas	Selective Catalytic Reduction	7 PPMV 3-hr avg @ 15 % o2	BACT-PSD	
RBLC	LA-0295	WESTLAKE FACILITY	LA	07/12/2016	Firetube Boiler Nos. 1 and 2 (4-08, EQT 324 & 5-08, EQT 325)	NATURAL GAS AND VENT GAS	Flue gas recirculation and good combustion practices, including good equipment design, use of gaseous fuels for good mixing, and proper combustion techniques (see notes below)	2.75 lb/hr hourly maximum	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGPREHEAT	natural gas	Good combustion practices and low NOx burners	0.036 lb/MMBtu hourly; each unit	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGFUELHTR (Two fuel pre-heaters identified as EUFUELHTR1 & EUFUELHTR2)	Natural gas	Good combustion practices.	2.65 lb/hr hourly; each unit	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGFUELHTR (2 fuel pre-heaters)	Natural gas	Good combustion practices	1.32 lb/hr hourly; each fuel heater	BACT-PSD	
RBLC	MI-0440	MICHIGAN STATE UNIVERSITY	MI	05/22/2019	FGFUELHEATERS	natural gas	Low NOx burners and good combustion practices.	0.05 lb/MMBtu hourly; each heater	BACT-PSD	
RBLC	MI-0426	DTE GAS COMPANY - MILFORD COMPRESSOR STATION	MI	03/24/2017	FGAUXBOILERS (6 auxiliary boilers EUAUXBOIL2A, EUAUXBOIL3A, EUAUXBOIL2B, EUAUXBOIL3B, EUAUXBOIL2C, EUAUXBOIL3C)	Natural gas	Ultra-low NOx burners and good combustion practices.	20 PPM AT 3% O2 each 3 mmbtu/h boiler	BACT-PSD	
RBLC	MI-0420	DTE GAS COMPANY--MILFORD COMPRESSOR STATION	MI	06/03/2016	FGAUXBOILERS	Natural gas	Ultra low NOx burners and good combustion practices.	14 PPMVOL at 15%o2; test protocol	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGAUXBOILER	Natural gas	Good combustion practices and low NOx burners.	0.036 lb/MMBtu hourly; each boiler	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Feed heater EU-2001	natural gas	Unit shall burn only natural gas and process fuel gas.□ Unit shall use an ultra-low-NOx burner.	0.03 lb/MMBtu	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	FCCU Charge Heater	Refinery Fuel Gas	Ultra Low-NOx Burners	0.04 lb/MMBtu 30 day rolling average	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUTOH in FGTOH	Natural gas	Good design and combustion practices, Low NOx burners.	0.05 lb/MMBtu	test protocol shall specify	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUTOH (In FGTOH)--Thermal Oil Heater	Natural gas	Low NOx burners and good design and combustion practices.	0.05 lb/MMBtu	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR2: Natural gas fired fuel heater	Natural gas	Low NOx burner	0.14 lb/hr	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR1: Natural gas fired fuel heater	Natural gas	Low NOx burner	0.75 lb/hr	hourly	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUFUELHTR (Fuel pre-heater)	Natural gas	Good combustion practices.	0.55 lb/hr	test protocol will specify avg time.	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUFLTOS1 in FGTOH (Thermal Oil System for Thermally Fused Lamination Lines)	Natural gas	Low NOx burners and good design and combustion practices.	0.05 lb/MMBtu	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFLTOS1 in FGTOH	Natural gas	Good design and combustion practices, low NOx burners.	0.05 lb/MMBtu	test protocol shall specify	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUENERGY in FGDRYERRTO (Thermal Energy Plant)	Wood derived fuel and biomass	Good combustion practices and low NOx burners	95 lb/hr	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUAUXBOILER--natural-gas fired auxiliary boiler, rated at less than or equal to 99 MMBTU/H	Natural gas	Low NOx Burners (LNB) or Flue Gas Recirculation (FGR) along with good combustion practices.	30 PPM	hourly	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUAUXBOILER--natural gas fired auxiliary boiler rated at <= 99MMBTU/H	Natural gas	Low NOx burners (LNB) or flue gas recirculation along with good combustion practices.	30 PPM	@3%o2; hourly	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUAUXBOILER--nat gas fired auxiliary boiler	Natural gas	Low NOx burners (LNB) or flue gas recirculation (FGR) along with good combustion practices.	30 PPM	at 3% o2; hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUAUXBOILER: Auxiliary Boiler	Natural gas	Low NOx burners/Flue gas recirculation.	0.036 lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Low NOx burners/flue gas recirculation and good combustion practices.	0.04 lb/MMBtu	30 day rolling avg time period	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Low NOx Burners/Flue Gas Recirculation and Good Combustion Practices	0.04 lb/MMBtu	30-day rolling average	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Low NOx burners/Flue gas recirculation and good combustion practices.	0.04 lb/MMBtu	30-day rolling average	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (North Plant): Auxiliary Boilder	Natural gas	Low NOx burners/flue gas recirculation and good combustion practices.	0.04 lb/MMBtu	30-day rolling avg time period	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUAUXBOILER (Auxiliary Boiler)	natural gas	Low NOx burners/Flue gas recirculation and good combustion practices.	0.04 lb/MMBtu	30 day rolling avg time period	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUAUXBOILER (Auxiliary boiler)	natural gas	Low NOx burners/Internal flue gas recirculation and good combustion practices.	0.05 lb/MMBtu	test protocol will specify avg time	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUAUXBOILER	Natural gas	Low NOx burners/flue gas recirculation and good combustion practices.	0.04 lb/MMBtu	30-day rolling average time period	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041c - Indirect-Fired Building Heating Systems > 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	1.92 lb/hr	monthly average	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041b - Indirect-Fired Building Heating Systems <= 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.3 lb/hr	monthly average	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041a - Direct-Fired Building Heating Systems	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	5.3 lb/hr	monthly average	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 037 - Sow Dryer	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan, Low-Nox Burners (LNBs) capable of meeting 0.054 lb/MMBtu.	1.08 lb/hr	monthly average	BACT-PSD	
RBLC	LA-0334	ST. CHARLES REFINERY	LA	01/04/2018	EQT0093 CCR HEATER (94-CCR)	PROCESS FUEL GAS	Low NOx Burners	0.04 lb/MMBtu	three 1-hour test average	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 15-01 - Natural Gas Direct-Fired Space Heaters, Process Water Heaters, & Air Makeup Heaters	Natural Gas	Low-Nox Burner (Designed to maintain 0.07 lb/MMBtu); and a Good Combustion and Operating Practices (GCOP) Plan.	70 LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-02 - Group 2 Car Bottom Furnaces A & B	Natural Gas	Low-Nox Burner (Designed to maintain 0.08 lb/MMBtu); and a Good Combustion and Operating Practices (GCOP) Plan.	81.6 LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-01 - Group 1 Car Bottom Furnaces #1 - #3	Natural Gas	Low-Nox Burner (Designed to maintain 0.08 lb/MMBtu); and a Good Combustion and Operating Practices (GCOP) Plan.	81.6 LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-03 - Tempering Furnace	Natural Gas	Low-Nox Burner (Designed to maintain 0.07 lb/MMBtu); and a Good Combustion and Operating Practices (GCOP) Plan.	70 LB/MMSC F		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-02 - Austenitizing Furnace	Natural Gas	Low-Nox Burner (Designed to maintain 0.15 lb/MMBtu in flameless mode and 0.25 lb/MMBtu in flame mode); and a Good Combustion and Operating Practices (GCOP) Plan.	158 LB/MMSC F flameless mode	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-05 - Steckel Mill Coiling Furnaces #1 & #2	Natural Gas	Low-Nox Burner (Designed to maintain 0.08 lb/MMBtu); and a Good Combustion and Operating Practices (GCOP) Plan.	81.6 LB/MMSC F	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-02 - Ingot Car Bottom Furnaces #1-#4	Natural Gas	Low-Nox Burner (Designed to maintain 0.18 lb/MMBtu); and a Good Combustion and Operating Practices (GCOP) Plan.	181.6 LB/MMSC F	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	Dryer Regenerator Heater - 005	process fuel gas	good combustion practices; ULNB	0.06 LB/MM BTU three one-hour test average	BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Dewpoint Heater	Natural Gas	Low NOx burners and good combustion practices	50 LB/MMSC F	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Decarburizing Line Furnace Section	Natural Gas	Low NOx burners SCR Combustion of clean fuel Good Combustion Practices	0.1 lb/MMBtu	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Low NOx burners	0.036 lb/MMBtu	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Low NOx burners and flue gas recirculation	0.011 lb/MMBtu	BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	No control listed.	0.1 lb/MMBtu	BACT-PSD	
RBLC	TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TX	06/18/2015	Commercial/Institutional Size Boilers (<100 MMBtu) - natural gas	natural gas	No control listed.	0.01 MMBTU/H rolling 3-hr average	LAER	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Complex Makeup Air Units (EP 21-19)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	100 LB/MMSC F	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	Cogen Auxiliary Air Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.04 lb/MMBtu 30 day rolling average	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Coal milling and drying heater EU-1007	natural gas	Unit shall burn only natural gas and process fuel gas. Unit shall use an ultra-low-NOx burner.	0.03 lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILERS SN-26 AND SN-27, GALVANIZING LINE	NATURAL GAS	LOW NOX BURNERS COMBUSTION OF CLEAN FUEL GOOD COMBUSTION PRACTICES	0.035 lb/MMBtu	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Boilers and Heaters (natural gas and diesel fired)	Natural Gas and Diesel	Good Combustion Practices	0.154 lb/MMBtu 3-hour average (ULSD)	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Boilers and Heaters	ULSD	No control listed	20 LB/1,000 GAL	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Boilers	Natural Gas	LNb and SCR	0.01 lb/MMBtu 3-HR AVG	BACT-PSD	
RBLC	TX-0861	BUCKEYE TEXAS PROCESSING CORPUS CHRISTI FACILITY	TX	08/29/2019	Boilers	refinery fuel gas	LOW NOX BURNERS	No limit listed.	BACT-PSD	
RBLC	*TX-0999	SEMICONDUCTOR MANUFACTURING FACILITY	TX	07/07/2025	BOILERS	NATURAL GAS	ultra-low NOx burners	0.03 lb/MMBtu HHV 1-HR AVG	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Boiler; S02/B02	natural gas	(a) B02 shall be equipped with ultra-low NOx burners and flue gas recirculation. (b) The permittee shall operate and maintain B02 according to the manufacturer's recommendations.	0.011 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, VACUUM DEGASSER	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE LOW NOX BURNERS	0.035 lb/MMBtu 3 HR	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, PICKLE LINE	NATURAL GAS	LOW NOX BURNERS COMBUSTION OF CLEAN FUEL GOOD COMBUSTION PRACTICES	0.035 lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, PICKLE LINE	NATURAL GAS	LOW NOX BURNERS COMBUSTION OF CLEAN FUEL GOOD COMBUSTION PRACTICES	0.035 lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, ANNEALING PICKLE LINE	NATURAL GAS	Low NOx burners, Combustion of clean fuel, and Good Combustion Practices	0.035 lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER SN-26, GALVANIZING LINE	NATURAL GAS	LOW NOX BURNERS COMBUSTION OF CLEAN FUEL GOOD COMBUSTION PRACTICES	0.035 lb/MMBtu	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Boiler EU-6000	natural gas	Unit shall burn only natural gas and process fuel gas. Unit shall use an ultra-low-NOx burner.	0.03 lb/MMBtu	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler B-201	natural gas/fuel gas	good combustion practices; fueled by natural gas or process fuel gas; ULNB (FGR and economizer)	0.06 LB/MM BTU THREE ONE-HOUR TEST AVERAGE	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler A and B (010 and 011)	natural gas/fuel gas	good combustion practices; fueled by natural gas or process fuel gas; ULNB (FGR and economizer)	0.06	LB/MM BTU	THREE ONE-HOUR TEST AVERAGE	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Boiler (CC-BOIL)	natural gas	low NOx burners	0.035	lb/MMBtu		BACT-PSD	
RBLC	TX-0732	WASTE HEAT BOILER NO. 36	TX	06/05/2015	Boiler	natural gas	Good combustion practices	0.11	lb/MMBtu	1-HR AVG	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	B-Line Tunnel Furnace (EP 02-02)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. Equipped with low NOx burners (0.07 lb/MMBtu)	70	LB/MMSC F	3-HR AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B3401	Refinery Fuel Gas	Ultra Low NOx Burners	0.04	lb/MMBtu	30 DAY ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B307	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	30 DAY ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B306	Refinery Fuel Gas	Ultra Low NOx Burners	0.035	lb/MMBtu	30 DAY ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2701	Refinery Fuel Gas	Ultra Low NOx Burners	0.04	lb/MMBtu	30 DAY ROLLING AVERAGE	BACT-PSD	
RBLC	WI-0270	DAIRYLAND POWER COOP ALMA STATION	WI	06/13/2016	B27 - Auxiliary Steam Boiler	Distillate fuel oil	Limit nitrogen oxides emissions to 0.21 pounds per MMBTU	0.21	lb/MMBtu		BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2502	Refinery Fuel Gas	Ultra Low NOx Burners	0.04	lb/MMBtu	30 DAY ROLLING AVERAGE	BACT-PSD	
RBLC	WI-0276	LOUISIANA-PACIFIC CORPORATION	WI	04/02/2015	B21 & B22 Boilers	Wood Waste	Good Combustion Practices	16.2	lb/hr		BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2031	Refinery Fuel Gas	Ultra Low NOx Burners	0.04	lb/MMBtu	30 DAY ROLLING AVERAGE	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B140	Refinery Fuel Gas	Ultra Low NOx Burners	0.04	lb/MMBtu	30 DAY ROLLING AVERAGE	BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	B13-B24 & B25-B36 Natural Gas-Fired Boilers	Natural Gas	Ultra-Low NOx Burners, Flue Gas Recirculation, and Good Combustion Practices.	0.0105	lb/MMBtu	1-HOUR AVERAGE	BACT-PSD	
RBLC	WI-0276	LOUISIANA-PACIFIC CORPORATION	WI	04/02/2015	B11 & B12 Boilers	Wood Waste	Good Combustion Practices	8.9	lb/hr		BACT-PSD	
RBLC	WI-0283	AFE, INC. æ™LCM PLANT	WI	04/24/2018	B01-B12, Boilers	Natural Gas	Ultra-low NOx Burners, Flue Gas Recirculation and Good Combustion Practices	0.0105	lb/MMBtu		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Auxiliary Boiler	Natural gas	SCR and ultra low NOx burners, Fired only on natural gas supplied by a public utility.	0.006	lb/MMBtu	30-DAY ROLLING AVERAGE BASIS	LAER	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Auxiliary boilers	natural gas	Low Nox burners	No limit listed.			BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Auxiliary Boiler, 99.8 MMBtu/hr	Natural gas	Low-NOx burners	0.05	lb/MMBtu		BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Auxiliary Boiler firing natural gas	natural gas	low NOx burners and flue gas recirculation (FGR)	0.8	lb/hr	AV OF THREE ONE H STACK TESTS	LAER	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Auxiliary Boiler (Unit 1C)	Natural Gas	Low NOx burner and SCR with good combustion practices	0.01	lb/MMBtu		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B002)	Natural gas	Good combustion practices and low NOx burner	2.19	lb/hr		BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Auxiliary Boiler (B001)	Natural gas	Flue gas recirculation (FGR) and low NOx burner	0.68	lb/hr		BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Auxiliary Boiler (B001)	Natural gas	Flue gas recirculation (FGR), low NOx burner, and natural gas/ULSD	9.9	lb/hr		BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Auxiliary Boiler (B001)	Natural gas	Flue gas recirculation (FGR), low NOx burner	0.76	lb/hr		BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Auxiliary Boiler (B001)	Natural gas	low NOX burners and flue gas recirculation	0.76	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Auxiliary Boiler (B001)	Natural gas	low-NOx burners and flue gas recirculation	3.7	lb/hr		BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Auxiliary Boiler (B001)	Natural gas	Flue gas recirculation and low NOX burner	0.29	lb/hr		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B001)	Natural gas	Good combustion practices and low NOx burner	1.56	lb/hr		BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Auxiliary Boiler (AB-3)	Natural Gas	Low NOx burners and Good Combustion Practices	35	LB/MMSC F		BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Auxiliary Boiler	Natural Gas	Ultra-low NOx burners and flue gas recirculation, air preheater, automated combustion management system with O2 trim system and automated water blowdown, and good combustion practices.	0.011	lb/MMBtu	3-HOUR AVERAGE	LAER	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Auxiliary Boiler	Natural Gas	Ultra low-NOx burners and flue gas recirculation air preheater, automated combustion management systems, automated water blowdown, good combustion practices	0.01	lb/MMBtu	3-HOUR AVERAGE	LAER	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Auxiliary Boiler	Natural Gas	Ultra low-NOx burners and flue gas recirculation, air preheater, automated combustion management system, with an oxygen trim system and an automated water blowdown system.	0.01 POUNDS/ MMBTU	ROLLING 3- OPERATING HOUR	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Auxiliary Boiler	Natural gas	No control listed.	0.037 LB PER MMBTU	BASED ON A 3-HR AVERAGE	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Auxiliary Boiler	Natural Gas	Ultra-low NOx burners and good combustion practices.	0.01 LB/MM BTU		BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	AUXILIARY BOILER	NATURAL GAS	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS, ULTRA LOW-NOX BURNERS, AND GOOD COMBUSTION PRACTICES	0.01 lb/MMBtu	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	AUXILIARY BOILER	Natural GAS	Low NOx burners and Flue Gas Recirculation (FGR) and use of natural gas a clean burning fuel	0.975 lb/hr	AV OF THREE ONE H INITIAL STACK TEST	LAER	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Auxiliary boiler	natural gas	flue gas recirculation with low NOx burners	0.0085 lb/MMBtu	1 H	LAER	
RBLC	*PA-0316	RENOVO ENERGY CENTER, LLC	PA	01/26/2018	Auxiliary Boiler	Natural Gas	ultra-low NOx burners and flue gas re-circulation; operated in accordance with the manufacturer's specifications and good operating practices	0.011 LB MMBTU		LAER	
RBLC	*WV-0029	HARRISON COUNTY POWER PLANT	WV	03/27/2018	Auxiliary Boiler	Natural Gas	LNB, FGR, Good Combustion Practices	0.86 lb/hr		BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY POWER PLANT	WV	09/18/2018	Auxiliary Boiler	Natural Gas/Ethane	LNB, Good Combustion Practices	1.23 lb/hr		BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Auxiliary Boiler	Natural Gas	Good combustion practices, Ultra-Low NOx burners, FGR	0.0086 lb/MMBtu		LAER	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Auxiliary boiler	Natural Gas	Ultra low NOx burners, FGR, good combustion practices	0.011 lb/MMBtu	AVG OF 3 1-HR TEST RUNS	LAER	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Auxiliary Boiler	Natural Gas	No control listed.	0.006 lb/MMBtu		LAER	
RBLC	CT-0159	CPV TOWANTIC, LLC	CT	11/30/2015	Aux Boiler	Natural Gas	Boiler permit does not specify any add-on control other than ultra-low NOx burner. Unit may be required to use additional control options to meet emissions limit.	7 PPMVD @3% O2		LAER	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Annealing Pickling Line Furnace Section	Natural Gas	Low NOx burners SCR Combustion of clean fuel Good Combustion Practices	0.1 lb/MMBtu		BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Ammonia Catalyst Startup Heater	Natural Gas	Low NOx Burners	50 LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	A-Line Tunnel Furnace (EP 02-01)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. Equipped with Low NOx burners (0.07 lb/MMBtu)	70 LB/MMSC F	3-HR AVERAGE	BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	90.5 MMBtu/hr Aux Boiler	Natural Gas	No control listed.	0.011 lb/MMBtu	3 HOUR AVG	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	60 MMBtu/hour Auxiliary Boiler	Natural Gas	low-NOx burners	0.05 lb/MMBtu		BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	60 MMBtu/hour Auxiliary Boiler	Natural Gas	Low-NOx burners	0.05 lb/MMBtu		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	5H-1 - Hydrochloric Acid Production Furnace - 5	Natural Gas	Low NOX burners, Selective Catalytic Reduction system, and good combustion practices	0.89 lb/hr		BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	55-22 - PAO Thermal Oxidizer	Natural Gas	Use of good thermal oxidizer design and implementation of good combustion practices	0.23 lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-4 - Boiler D	Natural Gas and/or hydrogen	Low NOX burners, Selective Catalytic Reduction system, and good combustion practices	3 lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-3 - Boiler C	Natural Gas and/or hydrogen	Low NOX burners, Selective Catalytic Reduction system, and good combustion practices	3 lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-2 - Boiler B	Natural Gas and/or hydrogen	Low NOX burners, Selective Catalytic Reduction system, and good combustion practices	3 lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-1 - Boiler A	Natural Gas and/or hydrogen	Low NOX burners, Selective Catalytic Reduction system, and good combustion practices	3 lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-4 - Cracking Furnace D	Natural Gas and/or hydrogen	Low NOX burners, Selective Catalytic Reduction system, and good combustion practices	0.96 lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-3 - Cracking Furnace C	Natural Gas and/or hydrogen	Low NOX burners, Selective Catalytic Reduction system, and good combustion practices	0.96 lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-2 - Cracking Furnace B	Natural Gas and/or hydrogen	Low NOX burners, Selective Catalytic Reduction system, and good combustion practices	0.96 lb/hr		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-17 - Cracking Furnace E	Natural Gas and/or hydrogen	Low NOX burners, Selective Catalytic Reduction system, and good combustion practices	0.96 lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-1 - Cracking Furnace A	Natural Gas and/or hydrogen	Low NOX burners, Selective Catalytic Reduction system, and good combustion practices	0.96 lb/hr		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	45.6 MMBtu/hr Natural Gas-Fired Nitrogen Vaporizers: B029 through B032	Natural gas	Ultra-low NOX burners, good combustion practices, and the use of natural gas	2.59 T/YR	PER ROLLING 12 MONTH PERIOD COMBINE D	BACT-PSD	
CARB/SC AQMD	562449	US GOVT, VET. AFFAIRS MED CTR	CA	3/5/2018	39.9 MMBtu watertube boiler with low NOx burner and SCR	Natural Gas	SCR, low temp de-NOx, Haldor Topsoe, model dnx-1029. Ammonia injection, three 150 lb cylinders, feed forward	5 ppmvd	15 minute with 3% O2 correction	BACT, LAER	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	29.4 MMBtu/hr Natural Gas-Fired Boilers: B001 through B028	Natural gas	Ultra-low NOX burners, good combustion practices, and the use of natural gas	9.74 T/YR	PER ROLLING 12 MONTH PERIOD B001 TO B014	BACT-PSD	
RBLC	AL-0307	ALLOYS PLANT	AL	10/09/2015	2 CALP LINE BOILERS	NATURAL GAS	LOW NOX BURNER □ FLUE GAS RECIRCULATION (FGR) □ GOOD COMBUSTION PRACTICES (GCP)	30 PPMVD	3% O2	BACT-PSD	
RBLC	LA-0377	TOKAI ADDIS FACILITY	LA	05/27/2020	1-19 Burner 1	natural gas	Low NOx Burners and good combustion practices.	0.08 lb/MMBtu		BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	02-22 - AO-5 Syltherm Furnace	Natural Gas	Use of ultra low NOx Burners	5.14 lb/hr	HOURLY MAXIMUM	BACT-PSD	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	Natural Gas	Ultra-low NOx burners and selective catalytic reduction	0.011 lb/MMBtu		BACT	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	ULSD or ULSK	Good combustion practices	0.10 lb/MMBtu		BACT	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Ultra-low NOx burners and selective catalytic reduction	0.011 lb/MMBtu		BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	185 MMBtu/hr auxiliary boiler	Natural Gas	Ultra-low NOx burners and selective catalytic reduction	0.011 lb/MMBtu		BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Ultra-low NOx burners and selective catalytic reduction	0.011 lb/MMBtu		BACT	

End of table

Appendix C-2f
BACT Analysis Database Search Results: Auxiliary Boiler, VOC
Canadys Station | Walterboro, South Carolina
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Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Boilers and Heaters	ULSD	No control listed	0.252	LB/1,000 GAL	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Three (3) Package Boilers	Natural Gas	No control listed	0.0054	lb/MMBtu 3-hr avg	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Five (5) Waste Heat Boilers	Natural Gas	No control listed	0.0054	lb/MMBtu 3-hr avg	BACT-PSD	
RBLC	AK-0083	KENAI NITROGEN OPERATIONS	AK	01/06/2015	Startup Heater	Natural Gas	Limited Use (200 hr/yr)	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Boilers and Heaters (natural gas and diesel fired)	Natural Gas and Diesel	Good Combustion Practices	0.0015	lb/MMBtu (ULSD) 3-hour average	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Two (2) Heaters (natural gas and diesel fired)	Natural Gas	Good Combustion Practices	0.0015	lb/MMBtu (ULSD) 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Two (2) Buyback Gas Bath Heaters and Three (3) Operations Camp Heaters	Natural Gas	Good Combustion Practices, Clean Fuels, and Limited Operation of 500 hours per year per heater.	0.0057	lb/MMBtu 3-hour average	BACT-PSD	
RBLC	AL-0307	ALLOYS PLANT	AL	10/09/2015	PACKAGE BOILER	NATURAL GAS	GCP	0.006	lb/MMBtu	BACT-PSD	
RBLC	AL-0307	ALLOYS PLANT	AL	10/09/2015	2 CALP LINE BOILERS	NATURAL GAS	GCP	0.006	lb/MMBtu	BACT-PSD	
RBLC	AL-0312	BELK CHIP-N-SAW FACILITY	AL	05/26/2016	60 MMBTU/HR NATURAL GAS-FIRED BOILER (ES-008)	NATURAL GAS	GOOD COMBUSTION PRACTICES	0.0054	lb/MMBtu INPUT	BACT-PSD	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	90.5 MMBtu/hr Aux Boiler	Natural Gas	No control listed	0.004	lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, VACUUM DEGASSER	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	BOILER SN-26, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.054	lb/MMBtu	BACT-PSD	
RBLC	AR-0155	BIG RIVER STEEL LLC	AR	11/07/2018	PREHEATER, GALVANIZING LINE SN-28	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, PICKLE LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	PREHEATERS, GALVANIZING LINE SN-28 and SN-29	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILER, ANNEALING PICKLE LINE	NATURAL GAS	Combustion of Natural gas and Good Combustion Practice	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0159	BIG RIVER STEEL LLC	AR	04/05/2019	BOILERS SN-26 AND SN-27, GALVANIZING LINE	NATURAL GAS	COMBUSTION OF NATURAL GAS AND GOOD COMBUSTION PRACTICE	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	HPU Steam Reformer	Fuelgas	No control listed	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0162	ENERGY SECURITY PARTNERS GTL PLANT	AR	01/10/2020	Fractionator Feed Heater	Fuelgas	No control listed	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Galvanizing Line #2 Furnace	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Decarburizing Line Furnace Section	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Annealing Pickling Line Furnace Section	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-142 Vacuum Degasser Boiler	Natural Gas	Good combustion practices	0.0026	lb/hr	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-233 Galvanizing Line Boilers	Natural Gas	Good combustion practices	0.0055	lb/MMBtu	BACT-PSD	
RBLC	AR-0172	NUCOR STEEL ARKANSAS	AR	09/01/2021	SN-202, 203, 204 Pickle Line Boilers	Natural Gas	Good Combustion Practice	0.0055	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Hydrogen Plant #2 Reformer Furnace		Combustion of Natural gas and Good Combustion Practice	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Reformer Natural Gas Fired	Natural Gas	Scrubber, Low Combustion of Natural Gas, and Good Combustion Practices NOX Burners,	35.6	TPY	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Furnace Dedusting		Combustion of Natural Gas and Good Combustion Practices	0.01	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Galvanizing Line Boilers #1 and #2	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0054	lb/MMBtu	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Pickle Galvanizing Line Boiler	Natural Gas	Combustion of Natural gas and Good Combustion Practice	0.0054	lb/MMBtu	BACT-PSD	
RBLC	FL-0364	SEMINOLE GENERATING STATION	FL	03/21/2018	Two natural gas heaters (< 10 MMBtu/hr each)	Natural gas	No control listed	0.005	lb/MMBtu	BACT-PSD	
RBLC	IL-0127	WINPAK HEAT SEAL CORPORATION	IL	10/05/2018	Heating Units	natural gas	Units shall be operated in accordance with good combustion practices.	No limit listed		BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Auxiliary Boiler	Natural Gas	Good burner design and good combustion practices	0.0015	POUNDS/ MMBTU rolling 3-operating hour	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Boilers	Natural Gas	Oxidation Catalysts, GCP and good burner design	0.0014	lb/MMBtu 3-hr avg	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Startup Heater	Natural Gas	GCP and good burner design	0.0014	lb/MMBtu 3-hr avg	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	STARTUP HEATER EU-002	NATURAL GAS	GOOD COMBUSTION PRACTICES	0.378	lb/hr	3 hour average	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	NATURAL GAS AUXILIARY BOILERS (EU-012A, EU-012B, EU-012C)	NATURAL GAS	GOOD COMBUSTION PRACTICES AT ALL TIMES THE BOILERS ARE IN OPERATION	5.5	LB/MMCF EACH	3 hour average	BACT-PSD	
RBLC	IN-0285	WHITING CLEAN ENERGY, INC.	IN	08/02/2017	Space Heaters		No control listed	0.0053	lb/MMBtu	when combusting natural gas	LAER	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Coal milling and drying heater EU-1007	natural gas	Unit shall burn only natural gas and process fuel gas.	0.0054	lb/MMBtu		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Treat gas heater EU-2002	natural gas	Unit shall burn only natural gas and process fuel gas.	0.0054	lb/MMBtu		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Vacuum column feed heater EU-2003	natural gas	Unit shall burn only natural gas and process fuel gas.	0.0054	lb/MMBtu		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Boiler EU-6000	natural gas	Unit shall burn only natural gas and process fuel gas.	0.0054	lb/MMBtu		BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	startup heater EU-002	natural gas	shall combust natural gas, good combustion practices	200	HR/YR	twelve consecutive month period	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	natural gas-fired auxiliary boilers EU 012A and EU 012B	natural gas	The natural gas-fired auxiliary boilers shall combust natural gas	5.5	LB/MMCF	three-hour average	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Boiler (CC-BOIL)	natural gas	good combustion practices and natural gas fuel (clean fuel)	0.0054	lb/MMBtu		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Galvanizing Line	natural gas	good combustion practices	5.5	LB/MMSC F		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Hot Water Circuit Burner for Sheet Metal Coating Line	natural gas	good combustion practices	5.5	LB/MMSC F		BACT-PSD	
RBLC	IN-0361	C-PLANT (SPECIALTY SOYBEAN EXTRACTION)	IN	05/12/2023	SPC Boiler #1 PS37 & SPC Boiler #2 PS38	Natural Gas	Good Combustion Practices	5.5	LB/MMCF (EACH)		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Auxiliary Boiler	Natural gas	No control listed	No limit listed			BACT-PSD	
RBLC	*IN-0399	HEIDELBERG MATERIALS US CEMENT LLC	IN	03/07/2025	Finish mill air heaters (E51HG01 and E52HG01)	Natural gas	Good Combustion Practices	0.3	lb/MMBtu		BACT-PSD	
RBLC	KS-0030	MID-KANSAS ELECTRIC COMPANY, LLC - RUBART STATION	KS	03/31/2016	Indirect fuel-gas heater		No control listed	0.011	lb/hr	excludes startup, shutdown & malfunction	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B306	Refinery Fuel Gas	Ultra Low NOx Burners	0.0015	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2502	Refinery Fuel Gas	Ultra Low NOx Burners	0.0015	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B3401	Refinery Fuel Gas	Ultra Low NOx Burners	0.0015	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	FCCU Charge Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.0015	lb/MMBtu	3-hour rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	Cogen Auxiliary Air Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.0015	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	New Crude Heater	Refinery Fuel Gas	Ultra Low NOx Burners	0.0015	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B307	Refinery Fuel Gas	Ultra Low NOx Burners	0.0015	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B140	Refinery Fuel Gas	Ultra Low NOx Burners	0.0015	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2701	Refinery Fuel Gas	Ultra Low NOx Burners	0.0015	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KS-0041	HOLLYFRONTIER EL DORADO REFINERY	KS	10/30/2019	B2031	Refinery Fuel Gas	Ultra Low NOx Burners	0.0015	lb/MMBtu	3 hr rolling average	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 15-01 - Natural Gas Direct-Fired Space Heaters, Process Water Heaters, & Air Makeup Heaters	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-01 - Group 1 Car Bottom Furnaces #1 - #3	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-02 - Austenitizing Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 05-02 - Group 2 Car Bottom Furnaces A & B	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-02 - Ingot Car Bottom Furnaces #1-#4	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 03-05 - Steckel Mill Coiling Furnaces #1 & #2	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 04-03 - Tempering Furnace	Natural Gas	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	5.5	LB/MMSC F		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Complex Makeup Air Units (EP 21-19)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Vacuum Degasser Boiler (EP 20-13)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Pickle Line #2 â€” Boiler #1 & #2 (EP 21-04 & EP 21-05)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC each F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Radiant Tube Furnace (EP 21-08B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Annealing Furnaces (15) (EP 21-15)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Preheat Furnace (EP 21-08A)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	A-Line Tunnel Furnace (EP 02-01)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan.	5.5	LB/MMSC F 3-hr average		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	B-Line Tunnel Furnace (EP 02-02)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC F 3-hr average		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Heated Transfer Table Furnace (EP 02-03)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC F 3-hr average		BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 037 - Sow Dryer	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.11	lb/hr monthly average		BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041a - Direct-Fired Building Heating Systems	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.29	lb/hr monthly average		BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041b - Indirect-Fired Building Heating Systems â€” 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.02	lb/hr monthly average		BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 041c - Indirect-Fired Building Heating Systems & 1 MMBtu	Natural Gas	Good Combustion & Operation Practices (GCOP) Plan	0.11	lb/hr monthly average		BACT-PSD	
RBLC	LA-0295	WESTLAKE FACILITY	LA	07/12/2016	Firetube Boiler Nos. 1 and 2 (4-08, EQT 324 & 5-08, EQT 325)	NATURAL GAS AND VENT GAS	Oxidation catalyst and good combustion practices, including good equipment design, use of gaseous fuels for good mixing, and proper combustion techniques (see notes below)	0.21	lb/hr hourly maximum		BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Auxiliary boilers	natural gas	good combustion practices	No limit listed			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Regenerative Heaters	natural gas	good combustion practices	No limit listed			BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	Dryer Regenerator Heater - 005	process fuel gas	good combustion practices and proper operation and maintenance	0.0054	LB/MM BTU three one-hour test average		BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler A and B (010 and 011)	natural gas/fuel gas	good combustion practices and proper operation and maintenance	0.0054	LB/MM BTU three one-hour test average		BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	boiler B-201	natural gas/fuel gas	good combustion practices and proper operation and maintenance	0.0054	LB/MM BTU three one-hour test average		BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Reactor Charge Heater - 53B001	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.05	lb/hr hourly maximum		BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Regeneraton Heater - 51B001	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.33	lb/hr hourly maximum		BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002A	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.18	lb/hr hourly maximum		BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002B	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.18	lb/hr hourly maximum		BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002C	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.18	lb/hr hourly maximum		BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002D	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.18	lb/hr hourly maximum		BACT-PSD	
RBLC	*LA-0315	G2G PLANT	LA	05/23/2014	Recycle Gas Heater - 51B002E	Natural Gas	Combustion controls (proper burner design and operation using natural gas)	0.18	lb/hr hourly maximum		BACT-PSD	

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RBLC	LA-0334	ST. CHARLES REFINERY	LA	01/04/2018	EQT0093 CCR HEATER (94-CCR)	PROCESS FUEL GAS	Good Combustion Practices	2.37	lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0349	DRIFTWOOD LNG FACILITY	LA	07/10/2018	Hot Oil Heaters (5)	natural gas	Good Combustion Practices and Use of low sulfur facility fuel gas	0.0054	LB/MM BTU		BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	HGO Hydrtreater Low Pressure Feed Heater (13-74, EQT0158)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed			BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	Sats Gas Hot Oil Heater (92-80, EQT0167)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed			BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	LSR Hydrotreater Stripper Reboiler (101-85, EQT0169)	Refinery Fuel Gas	Comply with work practice standards of 40 CFR 63 Subpart DDDDD	No limit listed			BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Hot Oil Heaters 1 and 2	Natural Gas	Good combustion practices and compliance with the applicable provisions of 40 CFR 63 Subpart DDDDD.	4.02	lb/hr		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	PR Waste Heat Boiler	Natural Gas	Good combustion practices and oxidation catalyst	13.37	lb/hr		BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Auxiliary Boiler	Natural Gas	Good combustion practices; compliance with 40 CFR 63 Subpart DDDDD.	0.0054	LB/MM BTU		BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	55-22 - PAO Thermal Oxidizer	Natural Gas	Use of good thermal oxidizer design and implementation of good combustion practices	0.03	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	02-22 - AO-5 Syltherm Furnace	Natural Gas	Use of good operating practices	0.69	lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0398	CAMERON LNG FACILITY	LA	09/19/2023	Hot Oil Heaters (EQT0111, EQT0112, EQT0113)	natural gas	Proper burner design and operations □ Good combustion practices □ Compliance with 40 CFR 63 Subpart DDDDD	0.0054	LB/MM BTU	annual	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-1 - Boiler A	Natural Gas and/or hydrogen	Good combustion practices	0.78	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-2 - Boiler B	Natural Gas and/or hydrogen	Good Combustion practices	0.0026	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-3 - Boiler C	Natural Gas and/or hydrogen	Good Combustion practices	0.78	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-4 - Boiler D	Natural Gas and/or hydrogen	Good Combustion practices	0.78	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-1 - Cracking Furnace A	Natural Gas and/or hydrogen	Good combustion practices	0.58	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-2 - Cracking Furnace B	Natural Gas and/or hydrogen	Good combustion practices	0.58	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-3 - Cracking Furnace C	Natural Gas and/or hydrogen	Good combustion practices	0.58	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-4 - Cracking Furnace D	Natural Gas and/or hydrogen	Good combustion practices	0.58	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-17 - Cracking Furnace E	Natural Gas and/or hydrogen	Good combustion practices	0.58	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	5H-1 - Hydrochloric Acid Production Furnace - 5	Natural Gas	Good combustion practices	0.87	lb/hr		BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	POx Unit Start-up Burner (EQT0006)	natural gas	Use of gaseous fuels (fuel gas and/or natural gas). □ Good combustion practices. □ Proper equipment (burner) design/operation. □ Compliance with 40 CFR 63 Subpart DDDDD	0.0054	LB/MM BTU		BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	AUXILIARY BOILER	NATURAL GAS	EXCLUSIVE USE OF NATURAL GAS, AND GOOD COMBUSTION PRACTICES	0.003	lb/MMBtu	3-hour block average	LAER	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUFLTOS1 in FGTOH (Thermal Oil System for Thermally Fused Lamination Lines)	Natural gas	Good design and operating/combustion practices.	0.0054	lb/MMBtu	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	EUTOH (In FGTOH)--Thermal Oil Heater	Natural gas	Good design and operating/combustion practices.	0.0054	lb/MMBtu	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Thermal Energy Plant (EUENERGY in FGDRYERRTO)	Wood-derived fuel & biomass	Good combustion practices, RTO.	7.1	lb/hr	test protocol will specify avg time	BACT-PSD	

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RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUAUXBOILER (Auxiliary Boiler)	natural gas	Good combustion practices.	0.004	lb/MMBtu	test protocol will specify avg time.	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	FGFUELHTR (Two fuel pre-heaters identified as EUFUELHTR1 & EUFUELHTR2)	Natural gas	Good combustion practices.	0.15	lb/hr	hourly; each fuel heater	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUFUELHTR (Fuel pre-heater)	Natural gas	Good combustion practices.	0.03	lb/hr	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUAUXBOILER (Auxiliary boiler)	natural gas	Good combustion practices.	0.008	lb/MMBtu	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUENERGY in FGDRYERTO (Thermal Energy Plant)	Wood derived fuel and biomass	Good combustion practices and RTO.	7.1	lb/hr	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUTOH in FGTOH	Natural gas	Good design and operating/combustion practices.	0.0054	lb/MMBtu	test protocol shall specify	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFLTOS1 in FGTOH	Natural gas	Good design and operating/combustion practices.	0.0054	lb/MMBtu	test protocol shall specify	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.004	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices.	0.004	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUAUXBOILER: Auxiliary Boiler	Natural gas	Good combustion practices	0.008	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR1: Natural gas fired fuel heater	Natural gas	Good combustion controls	0.17	lb/hr	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR2: Natural gas fired fuel heater	Natural gas	Good combustion controls.	0.03	lb/hr	hourly	BACT-PSD	
RBLC	MI-0440	MICHIGAN STATE UNIVERSITY	MI	05/22/2019	FGFUELHEATERS	natural gas	Good combustion practices	0.005	lb/MMBtu	hourly; each unit	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUAUXBOILER--natural gas fired auxiliary boiler rated at <= 99MMBTU/H	Natural gas	Good combustion practices.	0.5	lb/hr	hourly	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGAUXBOILER	Natural gas	Good combustion practices.	0.0054	lb/MMBtu	hourly; each boiler	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGPREHEAT	natural gas	Good combustion practices	0.025	lb/MMBtu	hourly; each unit	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUAUXBOILER	Natural gas	Good combustion practices	0.004	lb/MMBtu	hourly	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	FGFUELHTR (2 fuel pre-heaters)	Natural gas	Good combustion practices	0.07	lb/hr	hourly; each fuel heater	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUAUXBOILER--nat gas fired auxiliary boiler	Natural gas	Good combustion practices	0.3	lb/hr	hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal energy plant (EUENERGY in FGDRYERTO)	wood-derived fuel and biomass	Good combustion practices and RTO	7.1	lb/hr	hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil heater (EUTOH in FGTOH)	Natural gas	Good design and operating/combustion practices	0.0054	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Thermal oil system for thermally fused lamination lines (EUFLTOS1 in FGTOH)	Natural gas	Good Design and Operating/Combustion Practices	0.0054	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUAUXBOILER (North Plant): Auxiliary Boiler	Natural gas	Good combustion practices	0.004	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUAUXBOILER (South Plant): Auxiliary Boiler	Natural gas	Good combustion practices	0.004	lb/MMBtu	hourly	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUAUXBOILER--natural-gas fired auxiliary boiler, rated at less than or equal to 99 MMBTU/H	Natural gas	Good combustion practices.	0.3	lb/hr	hourly	BACT-PSD	
RBLC	MN-0096	USG CLOQUET	MN	04/03/2024	Space Heater (EQUI 161)	Natural gas	Good combustion practices	5.5	lb/MMBtu	3 hour average	BACT-PSD	
RBLC	NE-0064	NORFOLK CRUSH, LLC	NE	11/21/2022	Boiler A	Natural Gas	No control listed	0.52	lb/hr	three 1-hour tests / test method average	BACT-PSD	
RBLC	NE-0064	NORFOLK CRUSH, LLC	NE	11/21/2022	Boiler B	Natural Gas	No control listed	0.52	lb/hr	three 1-hour tests / test method average	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Auxiliary Boiler firing natural gas	natural gas	Use of good combustion practices and use of natural gas a clean burning fuel	0.32	lb/hr	av of three one h stack tests	LAER	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	AUXILIARY BOILER	Natural GAS	USE OF NATURAL GAS A CLEAN BURNING FUEL AND GOOD COMBUSTION PRACTICES	0.488	lb/hr	av of three one h stack tests initially	LAER	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Auxiliary boiler	natural gas	good combustion practice	0.0015	lb/MMBtu	1 h	LAER	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Auxiliary Boiler (B001)	Natural gas	Good combustion controls	0.2	lb/hr		BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Auxiliary Boiler (B001)	Natural gas	Good combustion controls and natural gas/ULSD	0.59	lb/hr		BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Startup Heater (B001)	Natural gas	Good combustion control (i.e., high temperatures, sufficient excess air, sufficient residence times, and god air/fuel mixing).	0.54	lb/hr		BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Auxiliary Boiler (B001)	Natural gas	Good combustion controls	0.23	lb/hr		BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Auxiliary Boiler (B001)	Natural gas	good combustion controls	0.23	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Auxiliary Boiler (B001)	Natural gas	Gas combustion control	0.93	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Fuel Gas Heaters (2 identical, P007 and P008)	Natural gas	Combustion control	0.075	lb/hr		BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Auxiliary Boiler (B001)	Natural gas	Good combustion controls	0.13	lb/hr		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B001)	Natural gas	Good combustion practices	0.16	lb/hr		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B002)	Natural gas	Good combustion practices	0.248	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace #2 (P018)	Natural Gas	Use of natural gas, good combustion practices and design	0.48	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tunnel Furnace (P001)	Natural Gas	Use of natural gas, good combustion practices and design	0.62	lb/hr		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	45.6 MMBtu/hr Natural Gas-Fired Nitrogen Vaporizers: B029 through B032	Natural gas	Good combustion practices and the use of natural gas	1.29	T/YR	PER ROLLING 12 MONTH PERIOD COMBINED	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	29.4 MMBtu/hr Natural Gas-Fired Boilers: B001 through B028	Natural gas	Good combustion practices and the use of natural gas	4.86	T/YR	PER ROLLING 12 MONTH PERIOD B001 TO B014	BACT-PSD	
RBLC	OK-0164	MIDWEST CITY AIR DEPOT	OK	01/08/2015	Heaters/Boilers	Natural Gas	1. Use pipeline-quality natural gas. □ 2. Good Combustion Practices w/emission rate limit of 0.005 lb/MMBtu based on AP-42 (7/1998)	7.1	TONS PER TOTAL YEAR	FOR ALL UNITS.	BACT-PSD	
RBLC	OK-0173	CMC STEEL OKLAHOMA	OK	01/19/2016	Heaters (Gas-Fired)	Natural Gas	Natural Gas Fuel.	0.0055	lb/MMBtu		BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	PA	06/15/2015	Auxiliary Boiler	Natural Gas	Good combustion practices and FGR	0.004	lb/MMBtu		LAER	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Auxillary Boiler	Natural gas	No control listed	0.005	lb/MMBtu	30-DAY ROLLING BASIS	LAER	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Auxiliary boiler	Natural Gas	ULSD and good combustion practices	0.004	lb/MMBtu	AVG OF 3 1-HR TEST RUNS	LAER	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Auxiliary Boiler	Natural Gas	No control listed	0.005	lb/MMBtu		LAER	
RBLC	*PA-0316	RENOVO ENERGY CENTER, LLC	PA	01/26/2018	Auxiliary Boiler	Natural Gas	No control listed	0.005	LB	MMBTU	N/A	
RBLC	SC-0179	CAROLINA PARTICLEBOARD	SC	03/18/2015	THERMAL OIL HEATER #2	NATURAL GAS	NATURAL GAS USAGE AND GOOD COMBUSTION PRACTICES.	0.01	lb/hr		BACT-PSD	
RBLC	SC-0192	CANFOR SOUTHERN PINE - CONWAY MILL	SC	05/21/2019	Boiler No. 2	Natural Gas	Work Practice Standards	0.0054	lb/MMBtu		BACT-PSD	
RBLC	SC-0193	MERCEDES BENZ VANS, LLC	SC	04/15/2016	Energy Center Boilers	Natural Gas	Annual tune ups per 40 CFR 63.7540(a)(10) are required.	5.5	LB/MMSC F	3 HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TX	06/18/2015	Commercial/Institutional Size Boilers (<100 MMBtu) â€“ natural gas	natural gas	No control listed	4	PPM	1-HR AVG	LAER	
RBLC	TX-0755	RAMSEY GAS PLANT	TX	05/21/2015	Amine Units I and II		RTOs will control the VOC emissions from each amine still vent.	No limit listed			BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	0.94	T/YR		BACT-PSD	
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	5.42	T/YR		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	TX-0772	PORT OF BEAUMONT PETROLEUM TRANSLOAD TERMINAL (PBPTT)	TX	11/06/2015	Commercial/Institutional-Size Boilers/Furnaces	natural gas	Good combustion practice to ensure complete combustion.	0.3	T/YR	BACT-PSD	
RBLC	TX-0813	ODESSA PETROCHEMICAL PLANT	TX	11/22/2016	Boilers	natural gas	Best combustion practices	0.0005	lb/MMBtu	BACT-PSD	
RBLC	TX-0813	ODESSA PETROCHEMICAL PLANT	TX	11/22/2016	small Boiler	natural gas	best combustion practices	0.0005	MMBTU/HR	BACT-PSD	
RBLC	TX-0851	RIO BRAVO PIPELINE FACILITY	TX	12/17/2018	Thermal Oxidizer	NATL GAS	Natural Gas / Clean Fuel, good combustion practices.	0.0054	lb/MMBtu	BACT-PSD	
RBLC	TX-0861	BUCKEYE TEXAS PROCESSING CORPUS CHRISTI FACILITY	TX	08/29/2019	Boilers	refinery fuel gas	good combustion practices	5.5	LB/MMSCF	BACT-PSD	
RBLC	TX-0861	BUCKEYE TEXAS PROCESSING CORPUS CHRISTI FACILITY	TX	08/29/2019	HEATERS	REFINERY FUEL GAS	Low Carbon Fuel Selection ☐ Good Combustion Practices	5.5	lb/MMBtu	BACT-PSD	
RBLC	TX-0863	POLYETHYLENE 7 FACILITY	TX	09/03/2019	Furnace	natural gas	Control of VOC in vent gas from pellet hoppers, blenders, and silos monitored with a continuous FID	No limit listed		LAER	
RBLC	TX-0877	SWEENY REFINERY	TX	01/08/2020	Isostripper Reboiler (heater)	natural gas	Good combustion practices, use of natural gas fuel for the project heater	0.0054	lb/MMBtu	LAER	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	Heaters	natural gas	Good combustion practice and proper design.	0.0054	lb/MMBtu	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	Water Bath Heater	NATURAL GAS	Good combustion practices	0.005	lb/MMBtu	BACT-PSD	
RBLC	TX-0955	INEOS OLIGOMERS CHOCOLATE BAYOU	TX	03/14/2023	HOT OIL HEATER	NATURAL GAS	Burner design for high efficiency combustion.	No limit listed		LAER	
RBLC	TX-0955	INEOS OLIGOMERS CHOCOLATE BAYOU	TX	03/14/2023	HEATER NO 2	NATURAL GAS	Burner design for good combustion efficiency	No limit listed		LAER	
RBLC	VA-0327	PERDUE GRAIN AND OILSEED, LLC	VA	07/12/2017	(4) 27 MMBtu/hr boilers, Natural gas and No. 2 fuel oil	Natural Gas	No control listed	0.1	lb/hr	BACT-PSD	
RBLC	WI-0266	GREEN BAY PACKAGING, INC. - SHIPPING CONTAINER DIVISION	WI	09/06/2018	Natural gas-fired boiler (Boiler B01)	Natural Gas	Good combustion practices, use only natural gas, equip boiler with Low NOx burners and flue gas recirculation	0.0055	lb/MMBtu	BACT-PSD	
RBLC	WI-0276	LOUISIANA-PACIFIC CORPORATION	WI	04/02/2015	B11 & B12 Boilers	Wood Waste	Regenerative Thermal Oxidizer & Good Combustion Practices	0.5	lb/hr	BACT-PSD	
RBLC	WI-0276	LOUISIANA-PACIFIC CORPORATION	WI	04/02/2015	B21 & B22 Boilers	Wood Waste	Regenerative Thermal Oxidizer & Good Combustion Practices	0.62	lb/hr	BACT-PSD	
RBLC	WI-0283	AFE, INC. - LCM PLANT	WI	04/24/2018	B01-B12, Boilers	Natural Gas	Ultra-low NOx Burners, Flue Gas Recirculation and Good Combustion Practices	0.0036	lb/MMBtu	BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	B13-B24 & B25-B36 Natural Gas-Fired Boilers	Natural Gas	Ultra-Low NOx Burners, Flue Gas Recirculation, and Good Combustion Practices.	0.0036	lb/MMBtu	BACT-PSD	
RBLC	WI-0289	GEORGIA-PACIFIC CONSUMER PRODUCTS LLC	WI	04/01/2019	B98 & B99 Natural Gas Fired Temporary Boilers	Natural Gas	Good Combustion Practices	0.0055	lb/MMBtu	BACT-PSD	
RBLC	WI-0292	GREEN BAY PACKAGING INC. - MILL DIVISION	WI	04/01/2019	P44 Space Heaters	Natural Gas	Good Combustion Practices, the Use of Low-NOx Burners	0.0055	lb/MMBtu	BACT-PSD	
RBLC	WI-0297	GREEN BAY PACKAGING- MILL DIVISION	WI	12/10/2019	Natural Gas-Fired Space Heaters (P44)	Natural Gas	No control listed	0.0055	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Auxiliary Boiler (B02)	Natural Gas	Oxidation catalyst and operate and maintain boiler according to manufacturer's recommendations.	0.0027	lb/MMBtu	BACT-PSD	
RBLC	WI-0306	WPL- RIVERSIDE ENERGY CENTER	WI	02/28/2020	Temporary Boiler (B98A)	Natural Gas	Shall be operated for no more than 500 hours and combust only pipeline quality natural gas.	No limit listed	SEE NOTES	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Boiler; S02/B02	natural gas	(a) An oxidation catalyst shall be used to control emissions from B02 while B02 is in operation. ☐ (b) The permittee shall operate and maintain B02 according to the manufacturer's recommendations.	0.0027	lb/MMBtu	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Heaters: S04/P04 and S05/P05	natural gas	(a) The permittee shall operate and maintain according to the manufacturer's recommendations. ☐ (b) The permittee shall tune within 120 days of the initial operation, and within 24-months of each preceding tune-up. ☐ (c) VOC emissions from may not exceed 0.005 lb/MMBtu. ☐ (d) The permittee may only combust pipeline quality natural gas.	0.005	lb/MMBtu	BACT-PSD	
RBLC	*WV-0029	HARRISON COUNTY POWER PLANT	WV	03/27/2018	Auxiliary Boiler	Natural Gas	Use of Natural Gas, Good Combustion Practices	0.62	lb/hr	BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY POWER PLANT	WV	09/18/2018	Auxiliary Boiler	Natural Gas/Ethane	Use of Natural Gas, Good Combustion Practices	0.9	lb/hr	BACT-PSD	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	Natural Gas	Good combustion practices	0.005	lb/MMBtu	BACT	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	172 MMBtu/hr auxiliary boiler	ULSD or ULSK	Good combustion practices	0.004	lb/MMBtu	BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices	0.005	lb/MMBtu	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	185 MMBtu/hr auxiliary boiler	Natural Gas	Good combustion practices and pipeline quality natural gas	0.005	lb/MMBtu	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices and pipeline quality natural gas	0.005	lb/MMBtu	BACT	

End of table

Appendix C-2g
BACT Analysis Database Search Results: Auxiliary Boiler, Sulfuric Acid Mist
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	99.8 MMBtu/hr auxiliary boiler	Natural gas	Clean fuels	No limit listed	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	60 MMBtu/hour Auxiliary Boiler	Natural Gas	Clean fuels	No limit listed	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	60 MMBtu/hour Auxiliary Boiler	Natural Gas	Limited sulfur content in fuel	1.4 GR. S/100 SCF NG fuel recordkeeping	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Auxiliary Boiler	Natural Gas	Good combustion practice	0.1 lb/hr	BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Auxiliary Boiler	Natural Gas	Good combustion practice	0.1 POUNDS/HOUR	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Auxiliary Boiler	Natural Gas	Use of only natural gas with a sulfur content of no greater than 0.5 grains (gr)/100 standard cubic feet (scf)	0.02 POUNDS/MMBTU rolling 3-hour operating hour	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Auxiliary Boiler	Natural gas	No control listed	0.0001 LB PER MMBTU based on a 3-hour average	BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	HGO Hydtreater Low Pressure Feed Heater (13-74, EQT0158)	Refinery Fuel Gas	Use refinery fuel gas that meets requirements of 40 CFR 60 Subpart Ja	No limit listed	BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	Sats Gas Hot Oil Heater (92-80, EQT0167)	Refinery Fuel Gas	Use refinery fuel gas that meets requirements of 40 CFR 60 Subpart Ja	No limit listed	BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	LSR Hydrotreater Stripper Reboiler (101-85, EQT0169)	Refinery Fuel Gas	Use refinery fuel gas that meets requirements of 40 CFR 60 Subpart Ja	No limit listed	BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	AUXILIARY BOILER	NATURAL GAS	EXCLUSIVE USE OF NATURAL GAS, AND GOOD COMBUSTION PRACTICES	0.004 lb/MMBtu 3-hour block average	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUAUXBOILER: Auxiliary Boiler	Natural gas	Good combustion practices, low sulfur fuel	0.34 GR S/100 SCF fuel supplier records	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR1: Natural gas fired fuel heater	Natural gas	Low sulfur fuel	0.34 GR S/100 SCF fuel supplier records	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFUELHTR2: Natural gas fired fuel heater	Natural gas	Low sulfur fuel	0.34 GR S/100 SCF fuel supplier records	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Auxiliary Boiler firing natural gas	natural gas	Use of natural gas a low sulfur fuel	0.02 lb/hr	BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	AUXILIARY BOILER	Natural GAS	USE OF NATURAL GAS A CLEAN BURNING AND LOW SULFUR FUEL	0.01 lb/hr	BACT-PSD	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Auxiliary boiler	natural gas	natural gas with maximum sulfur content 0.4 grains/100 dscf	1.1 10-4 lb/MMBtu 1 h	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Auxiliary Boiler (B001)	Natural gas	Low sulfur fuel	0.004 lb/hr	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Auxiliary Boiler (B001)	Natural gas	natural gas/ULSD	0.011 lb/hr	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Auxiliary Boiler (B001)	Natural gas	Low sulfur fuel	0.0087 lb/hr	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Auxiliary Boiler (B001)	Natural gas	low sulfur fuel	0.004 lb/hr	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Auxiliary Boiler (B001)	Natural gas	Pipeline natural gas fuel	0.043 lb/hr	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Fuel Gas Heaters (2 identical, P007 and P008)	Natural gas	Pipeline natural gas fuel	0.0035 lb/hr	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Auxiliary Boiler (B001)	Natural gas	Low sulfur fuel	0.003 lb/hr	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B001)	Natural gas	Pipeline quality natural gas	0.004 lb/hr	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Auxiliary Boiler (B002)	Natural gas	Pipeline quality natural gas	0.018 lb/hr	BACT-PSD	
RBLC	PA-0307	YORK ENERGY CENTER BLOCK 2 ELECTRICITY	PA	06/15/2015	Auxiliary Boiler	Natural Gas	Good combustion practices and low sulfur fuels	No limit listed	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Auxillary Boiler	Natural gas	No control listed	0.0001 lb/MMBtu	BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Auxiliary boiler	Natural Gas	ULSD and good combustion practices	0.0011 lb/MMBtu avg of 3 1-hr test runs	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Auxiliary Boiler	Natural Gas	No control listed	0.0001 lb/MMBtu	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-2001 Kero HDT Charge Heater and F-2002 Kero HDT Stripper Reboiler	NATL GAS AND REFINERY GAS	good combustion and the use of low sulfur gaseous fuel	0.18 lb/hr	BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	F-3001 Diesel DHDT Charge Heater and F-3002 Diesel DHDT Stripper Reboiler	NATL AND REFINERY GAS	good combustion and the use of gaseous fuel	0.13 lb/hr	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Auxiliary Boiler (B02)	Natural Gas	Only combust pipeline quality natural gas and operate and maintain to the manufacturer's recommendations	0.01 lb/hr	BACT-PSD	
RBLC	WI-0306	WPL- RIVERSIDE ENERGY CENTER	WI	02/28/2020	Temporary Boiler (B98A)	Natural Gas	Combust only pipeline quality natural gas.	No limit listed	BACT-PSD	
RBLC	*WV-0029	HARRISON COUNTY POWER PLANT	WV	03/27/2018	Auxiliary Boiler	Natural Gas	Use of Natural Gas	0.0132 lb/hr	BACT-PSD	
RBLC	*WV-0032	BROOKE COUNTY POWER PLANT	WV	09/18/2018	Auxiliary Boiler	Natural Gas/Ethane	Use of Natural Gas	0.02 lb/hr	BACT-PSD	
Permit Application	N/A	Greensville County Power Station	VA	41954	172 MMBtu/hr auxiliary boiler	Natural Gas	Use of pipeline quality natural gas, with ultra-low sulfur fuel oil as backup	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	41954	172 MMBtu/hr auxiliary boiler	ULSD or ULSK	Use of pipeline quality natural gas, with ultra-low sulfur fuel oil as backup	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	41954	12.0 MMBtu/hr fuel gas heater	Natural Gas	Use of pipeline quality natural gas	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	42242	185 MMBtu/hr auxiliary boiler	Natural Gas	Use of pipeline quality natural gas	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	42242	7.8 MMBtu/hr fuel gas heater	Natural Gas	Use of pipeline quality natural gas	No limit listed.	BACT	

End of table

Appendix C-3a
BACT Analysis Database Search Results: Emergency Generators, PM
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Emergency Camp Generators	ULSD	No control listed	0.15	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Emergency Camp Generators	ULSD	No control listed	0.15	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Airstrip Generator Engine	ULSD	No control listed	0.15	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Airstrip Generator Engine	ULSD	No control listed	0.15	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Agitator Generator Engine	ULSD	No control listed	0.3	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Agitator Generator Engine	ULSD	No control listed	0.3	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Incinerator Generator Engine	ULSD	No control listed	0.22	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Incinerator Generator Engine	ULSD	No control listed	0.22	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Fine Water Pumps	ULSD	No control listed	0.15	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Fine Water Pumps	ULSD	No control listed	0.15	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Bulk Tank Generator Engines	ULSD	No control listed	0.15	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Bulk Tank Generator Engines	ULSD	No control listed	0.15	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Black Start and Emergency Internal Combustion Engines	Diesel	Clean Fuel and Good Combustion Practices	0.25	G/KW-HR 3-hour average	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Black Start and Emergency Internal Combustion Engines	Diesel	Clean Fuel and Good Combustion Practices	0.25	G/KW-HR 3-hour average	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Black Start and Emergency Internal Combustion Engines	Diesel	Clean Fuel and Good Combustion Practices	0.25	G/KW-HR 3-hour average	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Fire Pump Diesel Internal Combustion Engines	Diesel	Clean Fuel and Good Combustion Practices	0.19	G/KW-HR 3-hour average	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Fire Pump Diesel Internal Combustion Engines	Diesel	Clean Fuel and Good Combustion Practices	0.19	G/KW-HR 3-hour average	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Fire Pump Diesel Internal Combustion Engines	Diesel	Clean Fuel and Good Combustion Practices	0.19	G/KW-HR 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	One (1) Black Start Generator Engine	ULSD	Good combustion practices, ULSD, and limit operation to 500 hours per year.	0.045	G/HP-HR 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	One (1) Black Start Generator Engine	ULSD	Good combustion practices, ULSD, and limit operation to 500 hours per year.	0.045	G/HP-HR 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	One (1) Black Start Generator Engine	ULSD	Good combustion practices, ULSD, and limit operation to 500 hours per year.	0.045	G/HP-HR 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Three (3) Firewater Pump Engines and two (2) Emergency Diesel Generators	ULSD	Good combustion practices, ULSD, and limit operation to 500 hours per year per engine	0.19	G/HP-HR 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Three (3) Firewater Pump Engines and two (2) Emergency Diesel Generators	ULSD	Good combustion practices, ULSD, and limit operation to 500 hours per year per engine	0.19	G/HP-HR 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Three (3) Firewater Pump Engines and two (2) Emergency Diesel Generators	ULSD	Good combustion practices, ULSD, and limit operation to 500 hours per year per engine	0.19	G/HP-HR 3-hour average	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Diesel Fire Pump Engine	Diesel	Good Combustion Practices; Limited Operation; 40 CFR 60 Subpart IIII	0.19	G/HP-HR	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Diesel Fire Pump Engine	Diesel	Good Combustion Practices; Limited Operation; 40 CFR 60 Subpart IIII	0.19	G/HP-HR	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Diesel Fire Pump Engine	Diesel	Good Combustion Practices; Limited Operation; 40 CFR 60 Subpart IIII	0.19	G/HP-HR	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Auxiliary Air Compressor Engine	Diesel	Good Combustion Practices; Limited Operation; 40 CFR 60 Subpart IIII	0.022	G/HP-HR	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Auxiliary Air Compressor Engine	Diesel	Good Combustion Practices; Limited Operation; 40 CFR 60 Subpart IIII	0.022	G/HP-HR	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Auxiliary Air Compressor Engine	Diesel	Good Combustion Practices; Limited Operation; 40 CFR 60 Subpart IIII	0.022	G/HP-HR	BACT-PSD	
RBLC	AL-0318	TALLADEGA SAWMILL	AL	12/18/2017	250 Hp Emergency CI, Diesel-fired RICE	Diesel	No control listed	No limit listed		N/A	
RBLC	AL-0318	TALLADEGA SAWMILL	AL	12/18/2017	250 Hp Emergency CI, Diesel-fired RICE	Diesel	No control listed	No limit listed		N/A	
RBLC	AL-0318	TALLADEGA SAWMILL	AL	12/18/2017	250 Hp Emergency CI, Diesel-fired RICE	Diesel	No control listed	No limit listed		N/A	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	Diesel Emergency Engines	Diesel	No control listed	0.15	G/BHP-HR	BACT-PSD	
RBLC	AR-0161	SUN BIO MATERIAL COMPANY	AR	09/23/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.02	G/KW-H	BACT-PSD	
RBLC	AR-0161	SUN BIO MATERIAL COMPANY	AR	09/23/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.02	G/KW-H	BACT-PSD	
RBLC	AR-0161	SUN BIO MATERIAL COMPANY	AR	09/23/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.02	G/KW-HR	BACT-PSD	
RBLC	AR-0163	BIG RIVER STEEL LLC	AR	06/09/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.2	G/KW-HR	BACT-PSD	
RBLC	AR-0163	BIG RIVER STEEL LLC	AR	06/09/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.2	G/KW-HR	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	AR-0163	BIG RIVER STEEL LLC	AR	06/09/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.2	G/KW-HR		BACT-PSD	
RBLC	AR-0177	NUCOR STEEL ARKANSAS	AR	11/21/2022	SN-230 Galvanizing Line No, 2 Emergency Generator	Diesel	No control listed	0.2	G/KW-HR		BACT-PSD	
RBLC	AR-0177	NUCOR STEEL ARKANSAS	AR	11/21/2022	SN-230 Galvanizing Line No, 2 Emergency Generator	Diesel	No control listed	0.2	G/KW-HR		BACT-PSD	
RBLC	AR-0177	NUCOR STEEL ARKANSAS	AR	11/21/2022	SN-230 Galvanizing Line No, 2 Emergency Generator	Diesel	No control listed	0.2	G/KW-HR		BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Generators	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.1	G/BHP-HR		BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Generators	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.1	G/BHP-HR		BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Generators	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.1	G/BHP-HR		BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Water Pumps	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	1	G/BHP-HR		BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Water Pumps	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	1	G/BHP-HR		BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Water Pumps	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	1	G/BHP-HR		BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Three 3300-kW ULSD emergency generators	ULSD	Use of clean fuel	0.2	G / KW-HR		BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	One 422-hp emergency fire pump engine	ULSD	Use of clean fuel	0.2	G / KW-HR		BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	Two 3300 kW emergency generators	ULSD	Clean fuel	0.2	GRAMS PER KWH		BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	Emergency Fire Pump Engine (422 hp)	ULSD	Certified engine	0.2	G / KWH		BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	1,500 kW Emergency Diesel Generator	ULSD	Operate and maintain the engine according to the manufacturer's written instructions	0.2	G/KW-HOUR		BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	Emergency Fire Pump Engine (347 HP)	ULSD	Operate and maintain the engine according to the manufacturer's written instructions	0.2	G/KW-HOUR		BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	1,500 kW Emergency Diesel Generator	ULSD	No control listed	0.2	G/KW-HOUR		BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	Emergency Fire Pump Engine (347 HP)	ULSD	No control listed	0.2	G/KW-HOUR		BACT-PSD	
RBLC	*IA-0117	SHELL ROCK SOY PROCESSING	IA	03/17/2021	Emergency Fire Pump Engine	diesel	No control listed	0.17	lb/hr pm, pm10 and pm2.5		BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Emergency Engines	Ultra-low sulfur diesel	No control listed	No limit listed			BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Firewater Pump Engine	Ultra-low sulfur diesel	No control listed	No limit listed			BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Firewater Pump Engine	Ultra-Low Sulfur Diesel	No control listed	0.2	G/KW-HR		BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Emergency Engine	Ultra-Low Sulfur Diesel	No control listed	0.2	G/KW-HR		BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Emergency Engines	Ultra-Low Sulfur Diesel	No control listed	0.2	GRAMS kilowatt-hour		BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Fire Water Pump Engine	Ultra-Low Sulfur Diesel	No control listed	0.2	GRAMS kilowatt-hour		BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Emergency Generator Engine	Diesel Fuel	No control listed	0.2	G/KW-HR 3-hr avg		BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Emergency Generator Engine	Diesel Fuel	No control listed	0.2	G/KW-HR 3-hr avg		BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Firewater Pump Engine	Diesel Fuel	No control listed	0.2	G/KW-HR 3-hr avg		BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Firewater Pump Engine	Diesel Fuel	No control listed	0.2	G/KW-HR 3-hr avg		BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	EMERGENCY GENERATORS (EU014A AND EU-014B)	DISTILLA TE OIL	GOOD COMBUSTION PRACTICES	0.15	G/HP-H EACH 3 hour average		BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	EMERGENCY GENERATORS (EU014A AND EU-014B)	DISTILLA TE OIL	GOOD COMBUSTION PRACTICES	0.15	G/HP-H EACH 3 hour average		BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	EMERGENCY GENERATORS (EU014A AND EU-014B)	DISTILLA TE OIL	GOOD COMBUSTION PRACTICES	0.15	G/HP-H EACH 3 hour average		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency generator EU-6006	Diesel	Tier II diesel engine	0.2	G/KWH		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency generator EU-6006	Diesel	Tier II diesel engine	0.2	G/KWH		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency generator EU-6006	Diesel	Tier II diesel engine	0.2	G/KWH		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency fire pump EU-6008	Diesel	Engine that complies with Table 4 to Subpart IIII of Part 60	0.2	G/KWH		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency fire pump EU-6008	Diesel	Engine that complies with Table 4 to Subpart IIII of Part 60	0.2	G/KWH		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency fire pump EU-6008	Diesel	Engine that complies with Table 4 to Subpart IIII of Part 60	0.2	G/KWH		BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	emergency generator EU 014a	distillate oil	No control listed	0.15	G/HP-HR		BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	emergency generator EU 014a	distillate oil	No control listed	0.15	G/HP-HR		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN1)	diesel	certified engine	0.15	G/HP-H		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN1)	diesel	certified engine	0.15	G/HP-H		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN1)	diesel	certified engine	0.15	G/HP-H		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN2)	diesel	certified engine	0.15	G/HP-H		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN2)	diesel	certified engine	0.15	G/HP-H		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN2)	diesel	certified engine	0.15	G/HP-H		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency generator	ULSD	No control listed	0.15	G PER HP-HR		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency generator	ULSD	No control listed	0.15	G PER HP-HR		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency generator	ULSD	No control listed	0.15	G/HP-HR		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency fire pump	Diesel	No control listed	0.2	G/KW-HR		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency fire pump	Diesel	No control listed	0.2	G/KW-HR)		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency fire pump	Diesel	No control listed	0.2	G/KW-HR		BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Emergency Generators	Diesel	good combustion practices	0.15	G/HP-HR 3-hour average		BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Emergency fire pump	Diesel	good combustion practices	0.15	G/HP-HR 3-hour average		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Black Start Emergency Generators	ultra-low sulfur diesel	Good combustion Practices, low sulfur fuel	0.15	G hp-hr		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Black Start Emergency Generators	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel	0.17	G hp-hr		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Black Start Emergency Generators	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel	0.17	G hp-hr		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	plant emergency generator	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel	0.07	G hp-hr		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	plant emergency generator	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel	0.05	G hp-hr		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	plant emergency generator	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel	0.07	G hp-hr		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	emergency fire water pump	ultra-low sulfur diesel	Good combustion practice, low sulfur fuel	0.15	G hp-hr		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	emergency fire water pump	ultra-low sulfur diesel	Good combustion practice, low sulfur fuel	0.17	G hp-hr		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	emergency fire water pump	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel	0.17	G hp-hr		BACT-PSD	
RBLC	KY-0109	FRITZ WINTER NORTH AMERICA, LP	KY	10/24/2016	Emergency Generators #1, #2, & #3 (EU72, EU73, & EU74)	Diesel	The permittee shall prepare and maintain for EU72, EU73, and EU74, within 90 days of startup, a good combustion and operation practices plan (GCOP) that defines, measures□ and verifies the use of operational and design practices determined as BACT for minimizing CO, VOC, PM, PM10, and PM2.5 emissions. Any revisions requested by the□ Division shall be made and the plan shall be maintained on site. The permittee shall operate according to the provisions of this plan at all times, including periods of startup, shutdown, and malfunction. The plan shall be incorporated into the plant standard operating procedures (SOP) and shall be made available for the Division’s inspection. The plan shall include, but not be limited to:□ i. A list of combustion optimization practices and a means of verifying the practices have occurred.□ ii. A list of combustion and operation practices to be used to lower energy consumption and a means of verifying the practices have occurred.□ iii. A list of the design choices determined to be BACT and verification that designs were implemented in the final construction.	0.149	G/HP-HR (EU72 & EU73)	req. manufacturer's cert.	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	KY-0109	FRITZ WINTER NORTH AMERICA, LP	KY	10/24/2016	Emergency Generators #1, #2, & #3 (EU72, EU73, & EU74)	Diesel	The permittee shall prepare and maintain for EU72, EU73, and EU74, within 90 days of startup, a good combustion and operation practices plan (GCOP) that defines, measures ☐ and verifies the use of operational and design practices determined as BACT for minimizing CO, VOC, PM, PM10, and PM2.5 emissions. Any revisions requested by the ☐ Division shall be made and the plan shall be maintained on site. The permittee shall operate according to the provisions of this plan at all times, including periods of startup, shutdown, and malfunction. The plan shall be incorporated into the plant standard operating procedures (SOP) and shall be made available for the Division's inspection. The plan shall include, but not be limited to: ☐ i. A list of combustion optimization practices and a means of verifying the practices have occurred. ☐ ii. A list of combustion and operation practices to be used to lower energy consumption and a means of verifying the practices have occurred. ☐ iii. A list of the design choices determined to be BACT and verification that designs were implemented in the final construction.	0.149	G/HP-HR (EU72 & EU73)	req. manufacturer's cert.	BACT-PSD	
RBLC	KY-0109	FRITZ WINTER NORTH AMERICA, LP	KY	10/24/2016	Emergency Generators #1, #2, & #3 (EU72, EU73, & EU74)	Diesel	The permittee shall prepare and maintain for EU72, EU73, and EU74, within 90 days of startup, a good combustion and operation practices plan (GCOP) that defines, measures ☐ and verifies the use of operational and design practices determined as BACT for minimizing CO, VOC, PM, PM10, and PM2.5 emissions. Any revisions requested by the ☐ Division shall be made and the plan shall be maintained on site. The permittee shall operate according to the provisions of this plan at all times, including periods of startup, shutdown, and malfunction. The plan shall be incorporated into the plant standard operating procedures (SOP) and shall be made available for the Division's inspection. The plan shall include, but not be limited to: ☐ i. A list of combustion optimization practices and a means of verifying the practices have occurred. ☐ ii. A list of combustion and operation practices to be used to lower energy consumption and a means of verifying the practices have occurred. ☐ iii. A list of the design choices determined to be BACT and verification that designs were implemented in the final construction.	0.149	G/HP-HR (EU72 & EU73)	req. manufacturer's cert.	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-02 - North Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-02 - North Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-02 - North Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-03 - South Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-03 - South Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-03 - South Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-04 - Emergency Fire Water Pump	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-04 - Emergency Fire Water Pump	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-04 - Emergency Fire Water Pump	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-01 - Melt Shop Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-01 - Melt Shop Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-01 - Melt Shop Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	0.15	G/HP-HR		BACT-PSD	

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Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	LA-0292	HOLBROOK COMPRESSOR STATION	LA	01/22/2016	Emergency Generators No. 1 & No. 2	Diesel	Use of a certified engine, low sulfur diesel, and limiting non-emergency use to no more than 100 hours per year	0.44	lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Diesel Engines (Emergency)	Diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Diesel Engines (Emergency)	Diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Diesel Engines	Diesel	good combustion practices, Use ULSD, and comply with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Diesel Engines	Diesel	good combustion practices, Use ULSD, and comply with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Firewater Pump Engines	Diesel	Complying with 40 CFR 60 Subpart IIII	0.15	G/BHP-HR		BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Firewater Pump Engines	Diesel	Complying with 40 CFR 60 Subpart IIII	0.15	G/BHP-HR		BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Emergency Generator Engines	Diesel	Complying with 40 CFR 60 Subpart IIII	0.2	G/KW-HR		BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Emergency Generator Engines	Diesel	Complying with 40 CFR 60 Subpart IIII	0.2	G/KW-HR		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DFP1-13 - Diesel Fire Pump Engine (EQT0013)	Diesel	Compliance with NSPS Subpart IIII	0.15	lb/hr		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DFP1-13 - Diesel Fire Pump Engine (EQT0013)	Diesel	Compliance with NSPS IIII	0.15	lb/hr		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DEG1-13 - Diesel Fired Emergency Generator Engine (EOT0012)	Diesel	Compliance with NSPS Subpart IIII	0.08	lb/hr		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DEG1-13 - Diesel Fired Emergency Generator Engine (EOT0012)	Diesel	Compliance with NSPS Subpart IIII	0.08	lb/hr		BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Generator 1	Diesel	Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel)	0.86	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Generator 1	Diesel	Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel)	0.86	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Firewater Pump 1	Diesel	Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel)	0.09	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Firewater Pump 1	Diesel	Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel)	0.09	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	firewater pump engines (8 units)	diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	firewater pump engines (8 units)	diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	emergency generator engines (6 units)	diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	emergency generator engines (6 units)	diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	Emergency Generator Engines (4 units)	Diesel	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	No limit listed			BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	Emergency Generator Engines (4 units)	Diesel	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	No limit listed			BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	Firewater pump Engines (4 units)	diesel	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	No limit listed			BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	Firewater pump Engines (4 units)	diesel	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	No limit listed			BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Fire Water Diesel Pump No. 3 Engine	Diesel Fuel	Proper operation and limits on hours operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Fire Water Diesel Pump No. 3 Engine	Diesel Fuel	Proper operation and limits on hours operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Fire Water Diesel Pump No. 4 Engine	Diesel Fuel	Proper operation and limits on hours of operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Fire Water Diesel Pump No. 4 Engine	Diesel Fuel	Proper operation and limits on hours of operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Standby Generator No. 9 Engine	Diesel Fuel	Proper operation and limits on hours of operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Standby Generator No. 9 Engine	Diesel Fuel	Proper operation and limits on hours of operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Firewater Pump Engine (EQT0017 - EQT0020)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	0.125	G/KW-HR		BACT-PSD	

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RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Firewater Pump Engine (EQT0017 - EQT0020)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	0.125	G/KW-HR	BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Generator Engines (EQT0016)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	0.067	G/KW-HR	BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Generator Engines (EQT0016)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	0.067	G/KW-HR	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Firewater Pumps	Diesel Fuel	Good combustion and operating practices.	0.3	G/HP-H	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Firewater Pumps	Diesel Fuel	Good combustion and operating practices.	0.3	G/HP-H	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Large Emergency Engines (>50kW)	Diesel Fuel	Good combustion and operating practices.	0.2	G/KW-H	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Large Emergency Engines (>50kW)	Diesel Fuel	Good combustion and operating practices.	0.2	G/KW-H	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Generator Diesel Engines	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Generator Diesel Engines	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Fire Water Pumps	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Fire Water Pumps	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed		BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	PVC Emergency Combustion Equipment A	Diesel	Good combustion practices/gaseous fuel burning	0.4	G//HP-HR	BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	PVC Emergency Combustion Equipment A	Diesel	Good combustion practices/gaseous fuel burning.	0.4	G/HP-HR	BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	PVC Emergency Combustion Equipment 2A and 2B	Diesel	Compliance with 40 CFR 60 Subpart IIII.	0.15	G/HP-HR	BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	PVC Emergency Combustion Equipment 2A and 2B	Diesel	Compliance with 40 CFR 60 Subpart IIII.	0.15	G/HP-HR	BACT-PSD	
RBLC	LA-0382	BIG LAKE FUELS METHANOL PLANT	LA	04/25/2019	Emergency Engines (EQT0014 - EQT0017)	Diesel	Comply with standards of 40 CFR 60 Subpart IIII	No limit listed		BACT-PSD	
RBLC	LA-0382	BIG LAKE FUELS METHANOL PLANT	LA	04/25/2019	Emergency Engines (EQT0014 - EQT0017)	Diesel	Comply with standards of 40 CFR 60 Subpart IIII	No limit listed		BACT-PSD	
RBLC	LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	LA	09/03/2020	Emergency Engines (EQT0011 - EQT0016)	Diesel	Comply with 40 CFR 60 Subpart IIII	No limit listed		BACT-PSD	
RBLC	LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	LA	09/03/2020	Emergency Engines (EQT0011 - EQT0016)	Diesel	Comply with 40 CFR 60 Subpart IIII	No limit listed		BACT-PSD	
RBLC	LA-0388	LACC LLC US - ETHYLENE PLANT	LA	02/25/2022	Firewater Pump Engine No. 1 and 2	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.23	lb/hr	BACT-PSD	
RBLC	LA-0388	LACC LLC US - ETHYLENE PLANT	LA	02/25/2022	Firewater Pump Engine No. 1 and 2	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.23	lb/hr	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Generator Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII, good combustion practices, and use of ultra-low sulfur diesel fuel.	0.15	G/HP-HR	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Generator Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII (Tier 2 non-road engines) standards, good combustion practices, and the use of ultra-low sulfur diesel fuel.	0.15	G/HP-HR	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Fired Water Pump Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII standards, good combustion practices, and the use of ultra-low sulfur diesel fuel.	0.15	G/HP-HR	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Fired Water Pump Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII, good combustion practices, and the use of ultra-low sulfur diesel fuel.	0.15	G/HP-HR	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	05-22 - AO-5 BDL Area PAD Sump Pump Driver	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII, and limiting non-emergency operation to no more than 100 hours per year	0.06	lb/hr HOURLY MAXIMUM	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	05-22 - AO-5 BDL Area PAD Sump Pump Driver	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII, and limiting non-emergency operation to no more than 100 hours per year	0.06	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	06-22 - AO-5 Emergency Generator	Diesel	Use of good combustion practices and compliance with NSPS Subpart IIII	0.22	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	06-22 - AO-5 Emergency Generator	Diesel	Use of good combustion practices and compliance with NSPS Subpart IIII	0.22	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	52-22 - PAO Area PAD Sump Pump Driver	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII, and limiting non-emergency operation to no more than 100 hours per year	0.06	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	52-22 - PAO Area PAD Sump Pump Driver	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII, and limiting non-emergency operation to no more than 100 hours per year	0.06	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	53-22 - PAO Emergency Generator	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII, and limiting non-emergency operation to no more than 100 hours per year	0.22	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	53-22 - PAO Emergency Generator	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII, and limiting non-emergency operation to no more than 100 hours per year	0.22	lb/hr	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	EGEN - Plant Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	1.19	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	EGEN - Plant Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	1.19	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-01 - Firewater Pump Engine No. 1	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.2	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-01 - Firewater Pump Engine No. 1	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.2	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-02 - Firewater Pump Engine No. 2	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.2	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-02 - Firewater Pump Engine No. 2	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.2	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-03 - Firewater Pump Engine No. 3	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	0.06	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-03 - Firewater Pump Engine No. 3	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	0.06	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	E. GEN 01 - Generac SD 2000	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	0.84	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	E. GEN 01 - Generac SD 2000	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	0.84	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	E. GEN 02 - Generac SD 2000	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	0.84	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	E. GEN 02 - Generac SD 2000	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	0.84	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6A - C/A Emergency Generator A	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.76	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6A - C/A Emergency Generator A	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.77	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6B - C/A Emergency Generator B	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.77	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6B - C/A Emergency Generator B	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.76	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6C - C/A Emergency Generator C	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.77	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6C - C/A Emergency Generator C	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.76	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7A - Fire Water Pump A	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.18	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7A - Fire Water Pump A	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.18	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7B - Fire Water Pump B	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.18	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7B - Fire Water Pump B	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.18	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7C - Fire Water Pump C	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.18	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7C - Fire Water Pump C	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.18	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-10 - Utility Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.66	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-10 - Utility Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.66	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-11 - Substation Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.05	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-11 - Substation Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.05	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-12 - VCM/CA/UT CCR Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.25	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-12 - VCM/CA/UT CCR Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.25	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11A - VCM Emergency Generator A	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.76	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11A - VCM Emergency Generator A	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.77	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11B - VCM Emergency Generator B	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.76	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11B - VCM Emergency Generator B	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.77	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11C - VCM Emergency Pump A	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.07	lb/hr		BACT-PSD	

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RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11C - VCM Emergency Pump A	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.07	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11D - VCM Emergency Pump B	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.07	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11D - VCM Emergency Pump B	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.07	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11E - VCM Emergency Pump C	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.76	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11E - VCM Emergency Pump C	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.07	lb/hr	BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	Diesel Emergency Generator (EQT0012)	diesel	Proper equipment design and good combustion practices.☐ Use ultra-low sulfur diesel as fuel.☐ Compliance with 40 CFR 60 Subpart IIII	0.15	G/HP-HR	BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	Diesel Emergency Generator (EQT0012)	diesel	Proper equipment design and good combustion practices.☐ Use ultra-low sulfur diesel as fuel.☐ Compliance with 40 CFR 60 Subpart IIII	0.15	G/HP-HR	BACT-PSD	
RBLC	MA-0043	MIT CENTRAL UTILITY PLANT	MA	06/21/2017	Cold Start Engine	ULSD	No control listed	0.4	lb/hr	BACT-PSD	
RBLC	MA-0043	MIT CENTRAL UTILITY PLANT	MA	06/21/2017	Cold Start Engine	ULSD	No control listed	0.4	lb/hr	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	1.41	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	1.41	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	1.41	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Dieself fire pump engine (EUFIREPUMP in FGRICE)	Diesel	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	0.18	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Dieself fire pump engine (EUFIREPUMP in FGRICE)	Diesel	Certified engines. Good design, operation and combustion practices. Operational restrictions/limited use.	0.18	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Dieself fire pump engine (EUFIREPUMP in FGRICE)	Diesel	Certified engines. Good design, operation and combustion practices. Operational restrictions/limited use.	0.18	lb/hr	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUEMENGINE (Diesel fuel emergency engine)	Diesel Fuel	Good combustion practices and meeting NSPS Subpart IIII requirements.	0.2	G/KW-H	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUEMENGINE (Diesel fuel emergency engine)	Diesel Fuel	Good combustion practices.	1.58	lb/hr	HOURLY	BACT-PSD
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUEMENGINE (Diesel fuel emergency engine)	Diesel Fuel	Good combustion practices.	1.58	lb/hr	HOURLY	BACT-PSD
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUFENGINE (Emergency engine-diesel fire pump)	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	0.15	G/BHP-H	TEST PROTOCOL WILL SPECIFY AVG TIME	BACT-PSD
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUFENGINE (Emergency engine-diesel fire pump)	Diesel	Good combustion practices	0.57	lb/hr	HOURLY	BACT-PSD
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUFENGINE (Emergency engine-diesel fire pump)	Diesel	Good combustion practices	0.57	lb/hr	HOURLY	BACT-PSD
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMRGRICE1 in FGRICE (Emergency diesel generator engine)	Diesel	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	0.66	lb/hr	TEST PROTOCOL SHALL SPECIFY	BACT-PSD
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMRGRICE1 in FGRICE (Emergency diesel generator engine)	Diesel	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	0.66	lb/hr	TEST PROTOCOL SHALL SPECIFY	BACT-PSD
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMRGRICE1 in FGRICE (Emergency diesel generator engine)	Diesel	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	0.66	lb/hr	TEST PROTOCOL SHALL SPECIFY	BACT-PSD
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMRGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	0.22	lb/hr	TEST PROTOCOL SHALL SPECIFY	BACT-PSD

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RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMRGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	Certified engines. Good design, operation and combustion practices. Operational restrictions/limited use.	0.22	lb/hr	TEST PROTOCOL SHALL SPECIFY	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMRGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	Certified engines. Good design, operation and combustion practices. Operational restrictions/limited use.	0.22	lb/hr	TEST PROTOCOL SHALL SPECIFY	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFIREPUMP in FGRICE (Diesel fire pump engine)	Diesel	Certified engines. Good design, operation and combustion practices. Operational restrictions/limited use.	0.18	lb/hr	TEST PROTOCOL SHALL SPECIFY	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFIREPUMP in FGRICE (Diesel fire pump engine)	Diesel	Certified engines. Good design, operation and combustion practices. Operational restrictions/limited use.	0.18	lb/hr	TEST PROTOCOL SHALL SPECIFY	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFIREPUMP in FGRICE (Diesel fire pump engine)	Diesel	Certified engines. Good design, operation and combustion practices. Operational restrictions/limited use.	0.18	lb/hr	TEST PROTOCOL SHALL SPECIFY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (South Plant): Fire pump engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.15	G/BHP-H	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (South Plant): Fire pump engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.66	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (South Plant): Fire pump engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.66	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (North Plant): Emergency Engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.2	G/KW-H	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (North Plant): Emergency Engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.54	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (North Plant): Emergency Engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.52	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (North Plant): Fire pump engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.15	G/BHP-H	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (North Plant): Fire pump engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.66	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (North Plant): Fire pump engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.66	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (South Plant): Emergency Engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS IIII requirements.	0.2	G/KW-H	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (South Plant): Emergency Engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.54	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (South Plant): Emergency Engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.52	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUENGINE: Emergency engine	Diesel	State of the art combustion design	0.2	G/KW-H	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUENGINE: Emergency engine	Diesel	State of the art combustion design	1.18	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUENGINE: Emergency engine	Diesel	State of the art combustion design.	1.18	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUPENGINE: Fire pump engine	Diesel	State of the art combustion design	0.2	G/KW-H	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUPENGINE: Fire pump engine	Diesel	State of the art combustion design.	0.13	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUPENGINE: Fire pump engine	Diesel	State of the art combustion design.	0.13	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUEMGD1--A 1500 HP diesel fueled emergency engine	Diesel	Good combustion practices, burn ultra-low sulfur diesel fuel and be NSPS compliant.	0.69	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUEMGD1--A 1500 HP diesel fueled emergency engine	Diesel	Ultra low-sulfur diesel fuel.	0.69	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUEMGD2--A 6000 HP diesel fuel fired emergency engine	Diesel	Good combustion practices, burn ULSD fuel, and be NSPS compliant.	2.7	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUEMGD2--A 6000 HP diesel fuel fired emergency engine	Diesel	ULSD fuel.	2.7	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUPPRICE--A 315 HP diesel fueled emergency engine	Diesel	ULSD fuel and good combustion practices.	0.12	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUPPRICE--A 315 HP diesel fueled emergency engine	Diesel	ULSD fuel and good combustion practices.	0.12	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGENGINE	Diesel	Good combustion practices and ULSD	0.04	G/HP-H	HOURLY; EACH ENGINE	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGENGINE	Diesel	Good combustion practices and ULSD	7.85	LB/1000 GAL	HOURLY; EACH ENGINE	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGENGINE	Diesel	Good combustion practices and ULSD.	7.55	LB/1000 GAL	HOURLY; EACH ENGINE	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUPENGINE (Emergency engine-diesel fire pump	diesel fuel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	0.15	G/BHP-H	HOURLY	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUPENGINE (Emergency engine-diesel fire pump	diesel fuel	Good combustion practices	0.57	lb/hr	HOURLY	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUFENGINE (Emergency engine diesel fire pump	diesel fuel	Good combustion practices	0.57	lb/hr	HOURLY	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUENGINE (diesel fuel emergency engine)	diesel fuel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	0.2	G/KW-H	HOURLY	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUENGINE (diesel fuel emergency engine)	diesel fuel	Good combustion practices	1.58	lb/hr	HOURLY	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUENGINE (diesel fuel emergency engine)	diesel fuel	Good combustion practices	1.58	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUEMGD--emergency engine	diesel fuel	Good combustion practices, burn ultra-low diesel fuel, and will be NSPS compliant.	0.2	G/KW-H	HOURLY	OTHER CASE-BY-CASE	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUEMGD--emergency engine	diesel fuel	Good combustion practices, burn ultra-low diesel fuel and be NSPS compliant.	1	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUEMGD--emergency engine	diesel fuel	ultra-low sulfur diesel fuel	1	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUFPRICE--A 315 HP diesel fueled emergency engine	Diesel	ULSD fuel and good combustion practices	0.12	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUFPRICE--A 315 HP diesel fueled emergency engine	Diesel	ULSD fuel and good combustion practices.	0.12	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMGRICE1 in FGRICE)	Diesel	Certified Engines, Good Design, Operation, and Combustion Practices, Operational Restrictions/Limited Use	0.66	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMGRICE1 in FGRICE)	Diesel	Certified Engines, Good Design, Operation, and Combustion Practices, Operational Restrictions/Limited Use	0.66	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMGRICE1 in FGRICE)	Diesel	Certified Engines, Good Design, Operation, and Combustion Practices, Operational Restrictions/Limited Use	0.66	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMGRICE2 in FGRICE)	Diesel	Certified Engines, Good Design, Operation, and Combustion Practices, Operational Restrictions/Limited Use	0.22	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMGRICE2 in FGRICE)	Diesel	Certified Engines, Good Design, Operation, and Combustion Practices, Operational Restrictions/Limited Use	0.22	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMGRICE2 in FGRICE)	Diesel	Certified Engines, Good Design, Operation, and Combustion Practices, Operational Restrictions/Limited Use	0.22	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Diesel fire pump engine (EUFIREPUMP in FGRICE)	Diesel	Certified Engines, Good Design, Operation, and Combustion Practices, Operational Restrictions/Limited Use	0.18	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Diesel fire pump engine (EUFIREPUMP in FGRICE)	Diesel	Certified Engines, Good Design, Operation, and Combustion Practices, Operational Restrictions/Limited Use	0.18	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Diesel fire pump engine (EUFIREPUMP in FGRICE)	Diesel	Certified Engines, Good Design, Operation, and Combustion Practices, Operational Restrictions/Limited Use	0.18	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUFENGINE (North Plant): Fire Pump Engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.66	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUFENGINE (North Plant): Fire Pump Engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.15	G/B-HP-H	HOURLY	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUFENGINE (North Plant): Fire Pump Engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.66	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUENGINE (North Plant): Emergency engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.2	G/KW-H	HOURLY	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUENGINE (North Plant): Emergency engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.54	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUENGINE (North Plant): Emergency engine	Diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.52	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUENGINE (South Plant): Emergency engine	Diesel	Diesel particulate filter, Good Combustion Practices and meeting NSPS Subpart IIII requirements	0.2	G/KW-H	HOURLY	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUENGINE (South Plant): Emergency engine	Diesel	Diesel particulate filter, Good Combustion Practices and meeting NSPS Subpart IIII requirements	0.54	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUENGINE (South Plant): Emergency engine	Diesel	Diesel particulate filter, Good Combustion Practices and meeting NSPS Subpart IIII requirements	0.52	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUFENGINE (South Plant): Fire pump engine	Diesel	Diesel particulate filter, Good Combustion Practices and meeting NSPS Subpart IIII requirements	0.15	G/B-HP-H	HOURLY	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUFENGINE (South Plant): Fire pump engine	Diesel	Diesel particulate filter, Good Combustion Practices and meeting NSPS Subpart IIII requirements	0.66	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUFENGINE (South Plant): Fire pump engine	Diesel	Diesel particulate filter, Good Combustion Practices and meeting NSPS Subpart IIII requirements	0.66	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUFPRICE--A 315 HP diesel-fueled emergency engine	Diesel	ULSD fuel and good combustion practices.	0.69	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUFPRICE--A 315 HP diesel-fueled emergency engine	Diesel	ULSD fuel and good combustion practices.	0.69	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUEMGD	Diesel	Good combustion practices, burn ultra-low diesel fuel, and will be NSPS compliant.	0.2	G/KWH	HOURLY	OTHER CASE-BY-CASE	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUEMGD	Diesel	Good combustion practices, burn ultra-low diesel fuel, and be NSPS compliant.	1	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUEMGD	Diesel	Ultra-low sulfur diesel fuel	1	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUEMGEN	Diesel	Good combustion practices; use of ULSD.	0.3	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUEMGEN	Diesel	Good combustion practices, use of ULSD	0.3	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUEMGEN	Diesel	Good combustion practices, use of ULSD	0.2	G/KW-H	HOURLY	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUFIREPUMP	Diesel	Good combustion practices, use of ULSD	0.2	G/KW-H	HOURLY	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUFIREPUMP	Diesel	Good combustion practices, use of ULSD	1.1	lb/hr	HOURLY	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUFIREPUMP	Diesel	Good combustion practices, use of ULSD	1.1	lb/hr	HOURLY	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 2 (EQUI 26)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.15	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 2 (EQUI 26)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.16	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 2 (EQUI 26)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.16	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 3 (EQUI 27)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.15	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 3 (EQUI 27)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.16	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 3 (EQUI 27)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.16	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 4 (EQUI 28)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.15	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 4 (EQUI 28)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.16	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 4 (EQUI 28)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.16	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 5 (EQUI 43)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.15	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 5 (EQUI 43)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.16	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 5 (EQUI 43)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.16	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 6 (EQUI 43)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.15	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 6 (EQUI 43)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.16	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 6 (EQUI 43)	ULSD	Emergency classification, hourly restriction, ULSD, and NSPS compliance	0.16	G/HP-HR	24 HOUR ROLLING AVERAGE	BACT-PSD	
RBLC	NE-0064	NORFOLK CRUSH, LLC	NE	11/21/2022	Emergency Fire Water Pump Engine 1	Diesel	No control listed	0.15	G/HP-HR	3-HOUR OR TEST METHOD AVERAGE	BACT-PSD	
RBLC	NE-0064	NORFOLK CRUSH, LLC	NE	11/21/2022	Emergency Fire Water Pump Engine 2	Diesel	No control listed	0.15	G/HP-HR	3-HOUR OR TEST METHOD AVERAGE	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Diesel Fired Emergency Generator	ULSD	use of ULSD a clean burning fuel, and limited hours of operation	0.26	lb/hr		BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Diesel Fired Emergency Generator	ULSD	use of ULSD a clean burning fuel, and limited hours of operation	0.26	lb/hr		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Diesel Fired Emergency Generator	ULSD	use of ULSD a clean burning fuel, and limited hours of operation	0.26	lb/hr	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Emergency Diesel Fire Pump	ULSD	use of ULSD a clean burning fuel, and limited hours of operation	0.1	lb/hr	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Emergency Diesel Fire Pump	ULSD	use of ULSD a clean burning fuel, and limited hours of operation	0.1	lb/hr	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Emergency Diesel Fire Pump	ULSD	use of ULSD a clean burning fuel, and limited hours of operation	0.1	lb/hr	BACT-PSD	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Black start generator	ULSD	Compliance demonstrated with vendor emission certification and adherence to vendor-specified maintenance recommendations.	0.15	G/BHP-H 1 H	BACT-PSD	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Emergency fire pump	ULSD	Compliance demonstrated with vendor emission certification and adherence to vendor-specified maintenance recommendations.	0.087	G/BHP-H 1 H	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	0.07	lb/hr	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	0.07	lb/hr	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	0.77	lb/hr	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	0.77	lb/hr	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	0.1	lb/hr	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	0.1	lb/hr	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	0.97	lb/hr	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	0.97	lb/hr	BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Fire Pump Diesel Engine (P008)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	0.02	lb/hr	BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Fire Pump Diesel Engine (P008)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	0.02	lb/hr	BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Generator (P009)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	0.2	lb/hr	BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Generator (P009)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	0.2	lb/hr	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency generator (P003)	Diesel fuel	ULSD fuel	0.5	lb/hr	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency generator (P003)	Diesel fuel	ULSD fuel	0.5	lb/hr	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency fire pump engine (P004)	Diesel fuel	ULSD fuel	0.1	lb/hr	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency fire pump engine (P004)	Diesel fuel	ULSD fuel	0.1	lb/hr	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency generator (P003)	Diesel fuel	ULSD fuel	0.5	lb/hr	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency generator (P003)	Diesel fuel	ULSD fuel	0.5	lb/hr	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency fire pump engine (P004)	Diesel fuel	ULSD fuel	0.1	lb/hr	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency fire pump engine (P004)	Diesel fuel	ULSD fuel	0.1	lb/hr	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Generators (2 identical, P004 and P005)	Diesel fuel	Certified to the meet the emissions standards in 40 CFR 89.112 and 89.113 pursuant to 40 CFR 60.4205(b) and 60.4202(a)(2). □ Good combustion practices per the manufacturerâ€™s operating manual.	0.73	lb/hr	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Generators (2 identical, P004 and P005)	Diesel fuel	Certified to the meet the emissions standards in 40 CFR 89.112 and 89.113 pursuant to 40 CFR 60.4205(b) and 60.4202(a)(2). □ Good combustion practices per the manufacturerâ€™s operating manual.	0.73	lb/hr	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Generators (2 identical, P004 and P005)	Diesel fuel	Certified to the meet the emissions standards in 40 CFR 89.112 and 89.113 pursuant to 40 CFR 60.4205(b) and 60.4202(a)(2). □ Good combustion practices per the manufacturerâ€™s operating manual.	0.73	lb/hr	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Fire Pump (P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII. Good combustion practices per the manufacturerâ€™s operating manual.	0.13	lb/hr	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Fire Pump (P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII. Good combustion practices per the manufacturerâ€™s operating manual.	0.13	lb/hr	RACT	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Fire Pump (P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII. Good combustion practices per the manufacturerâ€™s operating manual.	0.13	lb/hr	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Generator Engine (P001)	Diesel fuel	Good combustion design	0.73	lb/hr	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Generator Engine (P001)	Diesel fuel	Good combustion design	0.73	lb/hr	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Generator Engine (P001)	Diesel fuel	Good combustion design	0.73	lb/hr	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Fire Pump Engine (P002)	Diesel fuel	Good combustion design	0.23	lb/hr	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Fire Pump Engine (P002)	Diesel fuel	Good combustion design	0.23	lb/hr	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Fire Pump Engine (P002)	Diesel fuel	Good combustion design	0.23	lb/hr	BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Emergency diesel-fueled fire pump (P006)	Diesel fuel	Comply with NSPS 40 CFR 60 Subpart IIII	0.1	lb/hr	BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Emergency diesel-fueled fire pump (P006)	Diesel fuel	Comply with NSPS 40 CFR 60 Subpart IIII	0.1	lb/hr	BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Emergency diesel-fired generator (P007)	Diesel fuel	Comply with NSPS 40 CFR 60 Subpart IIII	1.01	lb/hr	BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Emergency diesel-fired generator (P007)	Diesel fuel	Comply with NSPS 40 CFR 60 Subpart IIII	1.01	lb/hr	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Diesel Generator (P003)	Diesel fuel	Good combustion practices (ULSD) and compliance with 40 CFR Part 60, Subpart IIII	0.62	lb/hr	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Diesel Generator (P003)	Diesel fuel	Good combustion practices (ULSD) and compliance with 40 CFR Part 60, Subpart IIII	0.62	lb/hr	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Diesel Generator (P003)	Diesel fuel	Good combustion practices (ULSD) and compliance with 40 CFR Part 60, Subpart IIII	0.62	lb/hr	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Fire Pump (P004)	Diesel fuel	Good combustion practices (ULSD) and compliance with 40 CFR Part 60, Subpart IIII	0.11	lb/hr	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Fire Pump (P004)	Diesel fuel	Good combustion practices (ULSD) and compliance with 40 CFR Part 60, Subpart IIII	0.11	lb/hr	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Fire Pump (P004)	Diesel fuel	Good combustion practices (ULSD) and compliance with 40 CFR Part 60, Subpart IIII	0.11	lb/hr	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Firewater Pumps (P005 and P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII and employ good combustion practices per the manufacturerâ€™s operating manual	0.13	lb/hr	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Firewater Pumps (P005 and P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII and employ good combustion practices per the manufacturerâ€™s operating manual	0.13	lb/hr	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Firewater Pumps (P005 and P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII and employ good combustion practices per the manufacturerâ€™s operating manual	0.13	lb/hr	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Emergency Diesel-fired Generator Engine (P007)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	1.1	lb/hr	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Emergency Diesel-fired Generator Engine (P007)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	1.1	lb/hr	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Emergency Diesel-fired Generator Engine (P007)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	1.1	lb/hr	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	1,000 kW Emergency Generators (P008 - P010)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	0.44	lb/hr	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	1,000 kW Emergency Generators (P008 - P010)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	0.44	lb/hr	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	1,000 kW Emergency Generators (P008 - P010)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	0.44	lb/hr		BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Black Start Generator (P007)	Diesel fuel	Tier IV engine□ Good combustion practices	5.22	X10-3 LB/H		BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Black Start Generator (P007)	Diesel fuel	Tier IV engine□ Good combustion practices	5.22	X10-3 LB/H		BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Emergency Generators (P005 and P006)	Diesel fuel	Tier IV engine□ Good combustion practices	0.15	lb/hr		BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Emergency Generators (P005 and P006)	Diesel fuel	Tier IV engine□ Good combustion practices	0.15	lb/hr		BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Diesel-fired emergency fire pumps (2) (P009 and P010)	Diesel fuel	Tier IV engine and Good combustion practices	0.15	G/B-HP-H		BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Diesel-fired emergency fire pumps (2) (P009 and P010)	Diesel fuel	Tier IV engine and Good combustion practices	0.15	G/B-HP-H		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	5,051 bhp (3,768 kWm) Diesel-Fired Emergency Generators: P001 through P046	Diesel fuel	Certified to meet Tier 2 standards and good combustion practices	0.2	G/KW-H		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	5,051 bhp (3,768 kWm) Diesel-Fired Emergency Generators: P001 through P046	Diesel fuel	Certified to meet Tier 2 standards and good combustion practices	0.07	lb/hr	EACH GENERATOR	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	5,051 bhp (3,768 kWm) Diesel-Fired Emergency Generators: P001 through P046	Diesel fuel	Certified to meet Tier 2 standards and good combustion practices	0.07	lb/hr	EACH GENERATOR	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	275 hp (205 kW) Diesel-Fired Emergency Fire Pump Engine	Diesel fuel	Certified to meet the standards in Table 4 of 40 CFR Part 60, Subpart IIII and good combustion practices	0.2	G/KW-H		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	275 hp (205 kW) Diesel-Fired Emergency Fire Pump Engine	Diesel fuel	Certified to meet the standards in Table 4 of 40 CFR Part 60, Subpart IIII and good combustion practices	0.6	lb/hr		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	275 hp (205 kW) Diesel-Fired Emergency Fire Pump Engine	Diesel fuel	Certified to meet the standards in Table 4 of 40 CFR Part 60, Subpart IIII and good combustion practices	0.6	lb/hr		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Fire pump engine	Ultra-low sulfur diesel	No control listed	0.11	GM/HP-HR		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Fire pump engine	Ultra-low sulfur diesel	No control listed	0.11	GM/HP-HR		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Fire pump engine	Ultra-low sulfur diesel	No control listed	0.11	GM/HP-HR		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	2000 kW Emergency Generator	Ultra-low sulfur Diesel	No control listed	0.025	GM/HP-HR		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	2000 kW Emergency Generator	Ultra-low sulfur Diesel	No control listed	0.025	GM/HP-HR		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	2000 kW Emergency Generator	Ultra-low sulfur Diesel	No control listed	0.025	GM/HP-HR		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Emergency Generator Engines	ULSD	No control listed	0.15	G/BHP-HR		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Emergency Fire Pump Engine	ULSD	No control listed	0.15	G/BHP-HR		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fire Pump Engine	diesel	No control listed	0.2	G/HP-HR		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fire Pump Engine	diesel	No control listed	0.2	G/HP-HR		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fire Pump Engine	diesel	No control listed	2	HP-HR		BACT-PSD	
RBLC	*PA-0313	FIRST QUALITY TISSUE LOCK HAVEN PLT	PA	07/27/2017	Emergency Generator	Diesel	No control listed	0.2	G	HP-HR		
RBLC	SC-0193	MERCEDES BENZ VANS, LLC	SC	04/15/2016	Emergency Generators and Fire Pump	No. 2 Fuel Oil	Meet emission standards of 40 CFR 60, Subpart IIII	100	HRS/YR	12 MONTH ROLLING SUM	BACT-PSD	
RBLC	SC-0193	MERCEDES BENZ VANS, LLC	SC	04/15/2016	Emergency Generators and Fire Pump	No. 2 Fuel Oil	Meet the standards of 40 CFR 60, Subpart IIII	100	HR/YR	12 MONTH ROLLING SUM	BACT-PSD	
RBLC	SC-0193	MERCEDES BENZ VANS, LLC	SC	04/15/2016	Emergency Generators and Fire Pump	No. 2 Fuel Oil	Must meet the standards of 40 CFR 60, Subpart IIII	100	HR/YR	12 MONTH ROLLING SUM	BACT-PSD	
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Emergency Diesel Generator	Diesel	Minimized hours of operations Tier II engine	0.15	lb/hr		OTHER CASE-BY-CASE	
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Emergency Diesel Generator	Diesel	Minimized hours of operations Tier II engine	0.15	lb/hr		OTHER CASE-BY-CASE	
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Emergency Diesel Generator	Diesel	Minimized hours of operations Tier II engine	0.15	lb/hr		OTHER CASE-BY-CASE	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	Emergency generator	DIESEL	Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101, limited to 100 hours per year of non-emergencv operation	No limit listed			BACT-PSD	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	Emergency generator	DIESEL	Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101, limited to 100 hours per year of non-emergency operation	No limit listed			BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	EMERGENCY GENERATORS & FIRE WATER PUMP ENGINES	Ultra-low Sulfur Diesel	well-designed and properly maintained engines and each limited to 100 hours per year of non-emergency use.	No limit listed			BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	EMERGENCY GENERATORS & FIRE WATER PUMP ENGINES	Ultra-low Sulfur Diesel	well-designed and properly maintained engines and each limited to 100 hours per year of non-emergency use.	No limit listed	BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	EMERGENCY GENERATORS & FIRE WATER PUMP ENGINES	Ultra-low Sulfur Diesel	well-designed and properly maintained engines and each limited to 100 hours per year of non-emergency use.	No limit listed	BACT-PSD	
RBLC	TX-0904	MOTIVA POLYETHYLENE MANUFACTURING COMPLEX	TX	09/09/2020	EMERGENCY GENERATOR	ULSD	100 HOURS OPERATIONS, Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101	No limit listed	BACT-PSD	
RBLC	TX-0904	MOTIVA POLYETHYLENE MANUFACTURING COMPLEX	TX	09/09/2020	EMERGENCY GENERATOR	ULSD	100 HOURS OPERATIONS, Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101	No limit listed	BACT-PSD	
RBLC	TX-0904	MOTIVA POLYETHYLENE MANUFACTURING COMPLEX	TX	09/09/2020	EMERGENCY GENERATOR	ULSD	100 HOURS OPERATIONS, Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101	No limit listed	BACT-PSD	
RBLC	TX-0905	DIAMOND GREEN DIESEL PORT ARTHUR FACILITY	TX	09/16/2020	EMERGENCY GENERATOR	ULSD	limited to 100 hours per year of non-emergency operation	No limit listed	BACT-PSD	
RBLC	TX-0905	DIAMOND GREEN DIESEL PORT ARTHUR FACILITY	TX	09/16/2020	EMERGENCY GENERATOR	ULSD	limited to 100 hours per year of non-emergency operation	No limit listed	BACT-PSD	
RBLC	TX-0905	DIAMOND GREEN DIESEL PORT ARTHUR FACILITY	TX	09/16/2020	EMERGENCY GENERATOR	ULSD	limited to 100 hours per year of non-emergency operation	No limit listed	BACT-PSD	
RBLC	TX-0915	UNIT 5	TX	03/17/2021	DIESEL GENERATOR	DIESEL	LIMITED 500 HR/YR OPERATION	0.022 G/HPHR	BACT-PSD	
RBLC	TX-0915	UNIT 5	TX	03/17/2021	DIESEL GENERATOR	DIESEL	LIMITED 500 HR/YR OPERATION	0.022 G/HPHR	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Emergency Generators	Ultra-low sulfur diesel (no more than 15	limited to 100 hours per year of non-emergency operation. EPA Tier 2 (40 CFR Â§ 1039.101) exhaust emission standards	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Emergency Generators	Ultra-low sulfur diesel (no more than 15	limited to 100 hours per year of non-emergency operation. EPA Tier 2 (40 CFR Â§ 1039.101) exhaust emission standards	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Emergency Generators	Ultra-low sulfur diesel (no more than 15	limited to 100 hours per year of non-emergency operation. EPA Tier 2 (40 CFR Â§ 1039.101) exhaust emission standards	No limit listed	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	EMERGENCY GENERATOR	DIESEL	GOOD COMBUSTION PRACTICES, LIMITED TO 100 HR/YR	0.0003 LB/HP HR	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	EMERGENCY GENERATOR	DIESEL	GOOD COMBUSTION PRACTICES, LIMITED TO 100 HR/YR	0.0003 LB/HP HR	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	EMERGENCY GENERATOR	DIESEL	GOOD COMBUSTION PRACTICES, LIMITED TO 100 HR/YR	0.003 LB/HP HR	BACT-PSD	
RBLC	*TX-0976	CORPUS CHRISTI LIQUEFACTION STAGE 3	TX	05/30/2025	EMERGENCY GENERATOR	DIESEL	EPA Tier 2, limited to 100 hours per year of non-emergency operation. GHGs from the emergency engines will be limited through engine design and certification in accordance with standards, limited operational hours, and proper operation and maintenance	No limit listed	BACT-PSD	
RBLC	*TX-0976	CORPUS CHRISTI LIQUEFACTION STAGE 3	TX	05/30/2025	EMERGENCY GENERATOR	DIESEL	EPA Tier 2, limited to 100 hours per year of non-emergency operation. GHGs from the emergency engines will be limited through engine design and certification in accordance with standards, limited operational hours, and proper operation and maintenance	No limit listed	BACT-PSD	
RBLC	*TX-0976	CORPUS CHRISTI LIQUEFACTION STAGE 3	TX	05/30/2025	EMERGENCY GENERATOR	DIESEL	EPA Tier 2, limited to 100 hours per year of non-emergency operation. GHGs from the emergency engines will be limited through engine design and certification in accordance with standards, limited operational hours, and proper operation and maintenance	No limit listed	BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL	ULSD/Fuel (15 ppm max)	0.4 G/KW PER HR	N/A	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL	ULSD/Fuel (15 ppm max)	0.4 G/KR PER HR	N/A	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED WATER PUMP 376 bph (1)	DIESEL FUEL	ULSD/Fuel (15 ppm max)	0.3 G/HP-H PER HR	N/A	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED WATER PUMP 376 bph (1)	DIESEL FUEL	ULSD/Fuel (15 ppm max)	0.3 G/HP-H HR	N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Diesel GEN	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.15 G/HP H	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Diesel GEN	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.15 G/HP H	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Diesel GEN	ULSD	Good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.15 G/HP H	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Fire Water Pump	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	15	G/HP/HR		BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Fire Water Pump	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.15	G/HP HR		BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Fire Water Pump	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.15	G/HP HR		BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Diesel Generator - 300 kW	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.15	G/HP-H		BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Diesel Generator - 300 kW	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.15	G/HP-HR		BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Diesel Generator - 300 kW	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.15	G/HP-HR		BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Fire Water Pump	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.15	G/HP-HR		BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Fire Water Pump	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.15	G/HP-HR		BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Fire Water Pump	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.15	G/HP-HR		BACT-PSD	
RBLC	VA-0333	NORFOLK NAVAL SHIPYARD	VA	12/09/2020	One (1) emergency engine generator	ULSD	No control listed	1.1	LB HR		BACT-PSD	
RBLC	VA-0333	NORFOLK NAVAL SHIPYARD	VA	12/09/2020	One (1) emergency engine generator	ULSD	No control listed	1.1	LB HR		BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	Diesel-Fired Emergency Generators	Diesel Fuel	The Use of Ultra-Low Sulfur Fuel and Good Combustion Practices	0.17	G/KWH		BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	Diesel-Fired Emergency Generators	Diesel Fuel	The Use of Ultra-Low Sulfur Fuel and Good Combustion Practices	0.17	G/KWH		BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	Diesel-Fired Emergency Generators	Diesel Fuel	The Use of Ultra-Low Sulfur Fuel and Good Combustion Practices	0.17	G/KWH		BACT-PSD	
RBLC	WI-0286	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	P42 -Diesel Fired Emergency Generator	Diesel Fuel	Good Combustion Practices and The Use of Ultra-low Sulfur Fuel	17	G/KWH		BACT-PSD	
RBLC	WI-0286	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	P42 -Diesel Fired Emergency Generator	Diesel Fuel	Good Combustion Practices and The Use of Ultra-low Sulfur Fuel	0.17	G/KWH		BACT-PSD	
RBLC	WI-0286	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	P42 -Diesel Fired Emergency Generator	Diesel Fuel	Good Combustion Practices and The Use of Ultra-low Sulfur Fuel	0.17	G/KWH		BACT-PSD	
RBLC	WI-0294	CARDINAL FG COMPANY	WI	08/26/2019	P10- Diesel emergency Generator	Diesel	No control listed	0.05	G/B-HP-H		BACT-PSD	
RBLC	WI-0294	CARDINAL FG COMPANY	WI	08/26/2019	P10- Diesel emergency Generator	Diesel	No control listed	0.05	G/BHP-H		BACT-PSD	
RBLC	WI-0294	CARDINAL FG COMPANY	WI	08/26/2019	P10- Diesel emergency Generator	Diesel	No control listed	0.05	G/BHP-H		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Fire Pump (P06)	Diesel	Operation limited to 500 hours/year, sulfur content of diesel fuel oil fired may not exceed 15 ppm, and shall be operated and maintained according to the manufacturer's recommendations.	0.15	G/HP-H		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Fire Pump (P06)	Diesel	Operation limited to 500 hours/year, sulfur content of diesel fuel oil fired may not exceed 15 ppm, and operate and maintain according to the manufacturer's recommendations.	0.15	G/HP-H		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Fire Pump (P06)	Diesel	Operation limited to 500 hours/year, sulfur content of diesel fuel oil fired may not exceed 15 ppm, and shall be operated and maintained according to the manufacturer's recommendations.	0.15	G/HP-H		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Generator (P07)	Diesel	Limited to operate 500 hours/year, sulfur content of the diesel fuel oil fired may not exceed 15 ppm, and operate and maintain according to the manufacturer's recommendations.	0.15	G/HP-H		BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Generator (P07)	Diesel	Limited to operate 500 hours/year, sulfur content of the diesel fuel oil fired may not exceed 15 ppm, and operate and maintain according to the manufacturer's recommendations.	0.15	G/HP-H		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Generator (P07)	Diesel	Limited to operate 500 hours/year, sulfur content of the diesel fuel oil fired may not exceed 15 ppm, and operate and maintain according to the manufacturer's recommendations.	0.15	G/HP-H	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Fire Pump; S06/P06 "Emergency Diesel Fire Pump"	diesel	Good combustion practices and clean fuels: (a) P06 may not operate more than 500 hours per each 12 rolling calendar months. (b) The sulfur content of the diesel fuel oil fired may not exceed 15 ppm. (c) P06 shall be operated and maintained according to the manufacturer's recommendations.	0.15	G/HP-HR	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Emergency Generator	diesel	Good combustion practices and clean fuels. The sulfur content of the diesel fuel oil fired may not exceed 15 ppm.	0.15	G/HP-HR	BACT-PSD	
RBLC	WV-0027	INWOOD	WV	09/15/2017	Emergency Generator - ESDG14	ULSD	ULSD	0.2	G/HP-HR	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Emergency Generator	ULSD	Clean Fuels and Good Combustion Practices.	0.23	lb/hr	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Fire Water Pump	ULSD	Clean Fuels & Good Combustion Practices	0.08	lb/hr	BACT-PSD	
CARB/SCAQMD	516409	US GOVT, VET. AFFAIRS MED CTR	CA	12/10/2015	Diesel fuel, six cylinders, turbocharged and aftercooled. Drives an emergency electricity generator. 374 BHP.	Diesel	Diesel Particulate Filter with hiback data logging and alarm system to automatically shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	0.15	g/bhp-hr	BACT, LAER	
CARB/SCAQMD	516708	LA County Sheriff's Department	CA	12/10/2015	Diesel fuel, 16 cylinders, turbocharged and aftercooled emergency electricity generator. 2220 BHP.	Diesel	Diesel Particulate Filter with CRTDM diagnostic module, data logging and alarm system to auto shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	0.15	g/bhp-hr	BACT, LAER	
CARB/SCAQMD	558397	University of Southern California	CA	12/10/2015	Diesel fuel, six cylinders, turbocharged and aftercooled. Drives an emergency electricity generator. 755 BHP.	Diesel	Diesel Particulate Filter with hiback data logging and alarm system to automatically shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	0.01	g/bhp-hr	BACT, LAER	
CARB/SCAQMD	504556	SFPP.LP	CA	2/1/2019	Emergency fire pump powered by a compression ignition turbocharged internal combustion engine. 183 BHP, four cycle, lean burn, six cylinders.	Diesel	Manufacturer's certification to Tier 3 emission standards.	0.15	g/bhp-hr 15% O2 correction	BACT, LAER	
BAAQMD	17.3.1	Bay Area	CA	8/4/2010	Boilers with greater than or equal to 50 MMBtu/hr heat input.		Natural gas or treated refinery gas fuel	No limit listed		BACT-PSD	
BAAQMD	96.1.3	Bay Area	CA	12/2/2024	IC Engine - Compression Ignition: Stationary Emergency, non-Agriculture, non-direct drive fire pump with a BHP Output between 50 and 1000		US EPA Final tier 4 standard for PM at applicable hp rating	No limit listed		BACT-PSD	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Four ULSD-fired emergency generators with a standby rating of approximately 1,500 kW, two ULSD-fired fire water pump engines with a continuous rating of approximately 260 kW (350 bhp), and two 500 kW emergency generators associated with support buildings.		Tier 2 and Tier 3 engines	No limit listed		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	3000 kW emergency generator	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	542 bhp emergency fire water pump	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	3000 kW emergency generator	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	376 bhp emergency fire water pump	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	100 kW emergency generator	Propane	Compliance with NSPS JJJJ	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	150 kW emergency generator	Propane	Compliance with NSPS JJJJ	No limit listed.		BACT	

End of table

Appendix C-3b
BACT Analysis Database Search Results: Emergency Generators, GHG
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Emergency Camp Generators	ULSD	No control listed	2332	TONS/YE	combined AR	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Airstrip Generator Engine	ULSD	No control listed	163	TONS/YE	AR	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Agitator Generator Engine	ULSD	No control listed	356	TONS/YE	AR	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Incinerator Generator Engine	ULSD	No control listed	516	TONS/YE	AR	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Fine Water Pumps	ULSD	No control listed	565	TONS/YE	combined AR	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Bulk Tank Generator Engines	ULSD	No control listed	7194	TONS/YE	combined AR	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Black Start and Emergency Internal Combustion Engines	Diesel	Good Combustion Practices	2781	TPY	yearly	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Fire Pump Diesel Internal Combustion Engines	Diesel	Good Combustion Practices	216	TPY (COMBINED)	yearly	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	One (1) Black Start Generator Engine	ULSD	Good combustion practices and limit operation to 500 hours per year	163.6	lb/MMBtu	3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Three (3) Firewater Pump Engines and two (2) Emergency Diesel Generators	ULSD	Good combustion practices and limit operation to 500 hours per year per engine	163.6	lb/MMBtu	3-hour average	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Diesel Fire Pump Engine	Diesel	Good Combustion Practices; Limited Operation;	163.6	lb/MMBtu	3-hours	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Auxiliary Air Compressor Engine	Diesel	Good Combustion Practices; Limited Operation	163.6	lb/MMBtu	3-hours	BACT-PSD	
RBLC	AR-0161	SUN BIO MATERIAL COMPANY	AR	09/23/2019	Emergency Engines	Diesel	Good Combustion Practices	164	lb/MMBtu		BACT-PSD	
RBLC	AR-0163	BIG RIVER STEEL LLC	AR	06/09/2019	Emergency Engines	Diesel	Good Combustion Practices	163	lb/MMBtu		BACT-PSD	
RBLC	AR-0163	BIG RIVER STEEL LLC	AR	06/09/2019	Emergency Engines	Diesel	Good Combustion Practices	0.0061	lb/MMBtu		BACT-PSD	
RBLC	AR-0163	BIG RIVER STEEL LLC	AR	06/09/2019	Emergency Engines	Diesel	Good Combustion Practices	0.0013	lb/MMBtu		BACT-PSD	
RBLC	AR-0177	NUCOR STEEL ARKANSAS	AR	11/21/2022	SN-230 Galvanizing Line No. 2 Emergency Generator	Diesel	No control listed	163	lb/MMBtu		BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Generators	Diesel	Good combustion practices	164	lb/MMBtu		BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Water Pumps	Diesel	Good combustion practices	164	lb/MMBtu		BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Emergency Engines	Ultra-low sulfur diesel	No control listed	No limit listed			BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Firewater Pump Engine	Ultra-low sulfur diesel	No control listed	No limit listed			BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Firewater Pump Engine	Ultra-Low Sulfur Diesel	No control listed	241	TONS/YE	12-month rolling average AR	BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Emergency Engine	Ultra-Low Sulfur Diesel	No control listed	225	TONS/YE	AR	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Emergency Engines	Ultra-Low Sulfur Diesel	No control listed	508	TONS/YE	AR	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Fire Water Pump Engine	Ultra-Low Sulfur Diesel	No control listed	92	TONS/YE	AR	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Emergency Generator Engine	Diesel Fuel	No control listed	160	TONS/YE	AR	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Firewater Pump Engine	Diesel Fuel	No control listed	25	TONS/YE	AR	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	EMERGENCY GENERATORS (EU014A AND EU-014B)	DISTILLATE OIL	GOOD COMBUSTION PRACTICES	1044	TON/12 CONSEC. MONTH	each	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency generator EU-6006	Diesel	Tier II diesel engine	811	TONS	12 consecutive months	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency fire pump EU-6008	Diesel	Engine that complies with Table 4 to Subpart IIII of Part 60	217	TONS	12 consecutive months	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	emergency generator EU 014a	distillate oil	No control listed	1044	TON/YR	twelve consecutive month period	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN1)	diesel	Good engineering design and manufacturer's recommended operating and maintenance procedures.	163.6	lb/MMBtu		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN2)	diesel	Good engineering design and manufacturer's recommended operating and maintenance procedures.	163.6	lb/MMBtu		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency generator	ULSD	No control listed	625	TONS PER YEAR		BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency fire pump	Diesel	No control listed	123	TONS PER YEAR		BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Emergency Generator (400 kW)	Diesel	Good Combustion Practices	180	TONS	per twelve (12) consecutive month period	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Emergency Generator (1000 kW)	Diesel	Good Combustion Practices	389	TONS	per twelve (12) consecutive month period	BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Emergency Generator (2000 kW)	Diesel	Good Combustion Practices	778	TONS	per twelve (12) consecutive month period	BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Ammonia Plant Emergency Generator	Diesel	Good Combustion Practices	219	TONS	per twelve (12) consecutive month period	BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Emergency Generators	Diesel	good combustion practices	No limit listed			BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Emergency fire pump	Diesel	good combustion practices	No limit listed			BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Black Start Emergency Generators	ultra-low sulfur diesel	No control listed	No limit listed			BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	plant emergency generator	ultra-low sulfur diesel	GHG emissions of the plant emergency generator shall be controlled through the use of a good engineering design fuel efficient design, and limited operating hours.	No limit listed			BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	emergency fire water pump	ultra-low sulfur diesel	No control listed	No limit listed			BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-02 - North Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed			BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-03 - South Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed			BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-04 - Emergency Fire Water Pump	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed			BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-01 - Melt Shop Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed			BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-02 - Reheat Furnace Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed			BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-07 - Air Separation Plant Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed			BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-01 - Caster Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed			BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-03 - Rolling Mill Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed			BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-04 - IT Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed			BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-05 - Radio Tower Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed			BACT-PSD	
RBLC	LA-0292	HOLBROOK COMPRESSOR STATION	LA	01/22/2016	Emergency Generators No. 1 & No. 2	Diesel	No control listed	77	TPY	annual maximum	BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Diesel Engines (Emergency)	Diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Diesel Engines	Diesel	good combustion/operating/maintenance practices	No limit listed			BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Firewater Pump Engines	Diesel	No control listed	No limit listed			BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Emergency Generator Engines	Diesel	No control listed	No limit listed			BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DFP1-13 - Diesel Fire Pump Engine (EQT0013)	Diesel	Compliance with NSPS Subpart IIII	37	TPY		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DEG1-13 - Diesel Fired Emergency Generator Engine (EQT0012)	Diesel	Compliance with NSPS Subpart IIII	84	TPY		BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Generator 1	Diesel	Good combustion practices	No limit listed			BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Firewater Pump 1	Diesel	Good combustion practices	No limit listed			BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	firewater pump engines (8 units)	diesel	good combustion practices	No limit listed			BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	emergency generator engines (6 units)	diesel	good combustion practices	No limit listed			BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	Emergency Generator Engines (4 units)	Diesel	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	No limit listed			BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	Firewater pump Engines (4 units)	diesel	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	No limit listed			BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Fire Water Diesel Pump No. 3 Engine	Diesel Fuel	Proper operation and limits on hours operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Fire Water Diesel Pump No. 4 Engine	Diesel Fuel	Proper operation and limits on hours of operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Standby Generator No. 9 Engine	Diesel Fuel	Proper operation and limits on hours of operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Firewater Pumps	Diesel Fuel	Good Combustion Practices and Good Operation and Maintenance Practices.	44 T/YR annual total	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Large Emergency Engines (>50kW)	Diesel Fuel	Good Combustion of Practices and Good Operation and Maintenance Practices	1481 T/YR annual total	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Generator Diesel Engines	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Fire Water Pumps	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed	BACT-PSD	
RBLC	LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	LA	09/03/2020	Emergency Engines (EQT0011 - EQT0016)	Diesel	Comply with 40 CFR 60 Subpart IIII	No limit listed	BACT-PSD	
RBLC	LA-0388	LACC LLC US - ETHYLENE PLANT	LA	02/25/2022	Firewater Pump Engine No. 1 and 2	Diesel	Compliance with 40 CFR 60 Subpart IIII	33 T/YR	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Generator Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII, good combustion practices, and the use of ultra-low sulfur diesel fuel.	74.21 KG/MM BTU	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Fired Water Pump Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII, good combustion practices, and the use of ultra-low sulfur diesel fuel.	74.21 KG/MM BTU	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	05-22 - AO-5 BDL Area PAD Sump Pump Driver	Diesel	Use of good combustion practices and compliance with NSPS Subpart IIII	No limit listed	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	06-22 - AO-5 Emergency Generator	Diesel	Use of good combustion practices and compliance with NSPS Subpart IIII	No limit listed	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	52-22 - PAO Area PAD Sump Pump Driver	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII	No limit listed	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	53-22 - PAO Emergency Generator	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII	No limit listed	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6A - C/A Emergency Generator A	Diesel	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6B - C/A Emergency Generator B	Diesel	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6C - C/A Emergency Generator C	Diesel	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-10 - Utility Emergency Generator	Diesel	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-11 - Substation Emergency Generator	Diesel	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-12 - VCM/CA/UT CCR Emergency Generator	Diesel	BACT is determined to be the implementation of the following energy efficiency measures: Improved Combustion Measures, Insulation, and Minimization of Air Infiltration	No limit listed	BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	Diesel Emergency Generator (EQT0012)	diesel	Proper equipment design and good combustion practices. □ Use ultra-low sulfur diesel as fuel. □ Compliance with 40 CFR 60 Subpart IIII.	1.16 G/HP-HR	BACT-PSD	
RBLC	MA-0043	MIT CENTRAL UTILITY PLANT	MA	06/21/2017	Cold Start Engine	ULSD	No control listed	163.61 lb/MMBtu	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	Good combustion and design practices.	223 T/YR based upon a 12-mo rolling time period	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Dieself fire pump engine (EUFIREFUMP in FGRICE)	Diesel	Good combustion and design practices.	56 T/YR based upon a 12-mo rolling time period	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUENGINE (Diesel fuel emergency engine)	Diesel Fuel	Good combustion practices	928	T/YR	12-mo. rolling time period	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUPENGINE (Emergency engine--diesel fire pump)	Diesel	Good combustion practices	13.58	T/YR	12 mo. rolling time period	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMGRICE1 in FGRICE (Emergency diesel generator engine)	Diesel	Good combustion and design practices.	209	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	Good combustion and design practices.	70	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFIREPUMP in FGRICE (Diesel fire pump engine)	Diesel	Good combustion and design practices.	56	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (South Plant): Fire pump engine	Diesel	Good combustion practices.	85.6	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (North Plant): Emergency Engine	Diesel	Good combustion practices.	383	T/YR	12-mo. rolling time period	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (North Plant): Fire pump engine	Diesel	Good combustion practices.	85.6	T/YR	12-month rolling time period	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (South Plant): Emergency Engine	Diesel	Good combustion practices.	383	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUENGINE: Emergency engine	Diesel	Energy efficient design.	161	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUPENGINE: Fire pump engine	Diesel	Energy efficient design	86	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUEMGD1--A 1500 HP diesel fueled emergency engine	Diesel	Good combustion practices and energy efficiency measures.	406	T/YR	12-month rolling time period	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUEMGD2--A 6000 HP diesel fuel fired emergency engine	Diesel	Good combustion practices and energy efficiency measures.	1590	T/YR	12-month rolling time period	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUPRICE--A 315 HP diesel fueled emergency engine	Diesel	Good combustion practices and energy efficiency measures.	20	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGENGINE	Diesel	No control listed	444	T/YR	12-mo roll. time period; each engine	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUPENGINE (Emergency engine--diesel fire pump)	diesel fuel	Good combustion practices	13.58	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUENGINE (diesel fuel emergency engine)	diesel fuel	Good combustion practices	928	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUEMGD--emergency engine	diesel fuel	low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	590	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUPRICE--A 315 HP diesel fueled emergency engine	Diesel	Low carbon fuel (pipeline quality natural gas), good combustion practices and energy efficiency measures.	20	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMGRICE1 in FGRICE)	Diesel	Good Combustion and Design Practices	590	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMGRICE2 in FGRICE)	Diesel	Good Combustion and Design Practices	209	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Diesel fire pump engine (EUFIREPUMP in FGRICE)	Diesel	Good Combustion and Design Practices	56	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUPENGINE (North Plant): Fire Pump Engine	Diesel	Good combustion practices	85.6	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUENGINE (North Plant): Emergency engine	Diesel	Good combustion practices	383	T/YR	12-mo rolling time period	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUENGINE (South Plant): Emergency engine	Diesel	Good combustion practices	383	T/YR	12-mo rolling time period	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUFENGINE (South Plant): Fire pump engine	Diesel	Good combustion practices.	85.6	T/YR	12-month rolling time period	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUFPRICE--A 315 HP diesel-fueled emergency engine	Diesel	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	20	T/YR	12-month rolling time period	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUEMGD	Diesel	low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	590	T/YR	12-month rolling time period	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUEMGEN	Diesel	Good combustion practices, use of current energy efficiency measures.	205	T/YR	12-month rolling time period	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUFIREPUMP	Diesel	Good combustion practices, use of current energy efficiency measures.	27	T/YR	12-month rolling time period	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 2 (EQUI 26)	ULSD	Emergency classification, hourly restriction, and good combustion practices	314	TON/YR	12 month rolling sum	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 3 (EQUI 27)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	314	TON/YR	12 month rolling sum	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 4 (EQUI 28)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	314	TON/YR	12 month rolling sum	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 5 (EQUI 43)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	231	TON/YR	12 month rolling sum	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 6 (EQUI 43)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	231	TON/YR	12 month rolling sum	BACT-PSD	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Emergency fire pump	ULSD	Good combustion practice and efficient engine design.	115	TPY	mo	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency fire pump engine (P004)	Diesel fuel	Efficient design	41	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency generator (P003)	Diesel fuel	Efficient design	683	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency fire pump engine (P004)	Diesel fuel	Efficient design	90	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency generator (P003)	Diesel fuel	Efficient design	858	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Fire Pump Diesel Engine (P008)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	123	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Generator (P009)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	1289	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency generator (P003)	Diesel fuel	Efficient design	445	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency fire pump engine (P004)	Diesel fuel	Efficient design	87	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency generator (P003)	Diesel fuel	state of the art combustion design	445	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	87	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Generators (2 identical, P004 and P005)	Diesel fuel	good operating practices (proper maintenance and operation)	120	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Fire Pump (P006)	Diesel fuel	good operating practices (proper maintenance and operation)	29	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Generator Engine (P001)	Diesel fuel	Efficient design	116.8	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Fire Pump Engine (P002)	Diesel fuel	Efficient design	40.1	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Emergency diesel-fueled fire pump (P006)	Diesel fuel	Equipment design and maintenance requirements	163.6	lb/MMBtu		BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Emergency diesel-fired generator (P007)	Diesel fuel	Equipment design and maintenance requirements	163.6	lb/MMBtu		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Diesel Generator (P003)	Diesel fuel	Efficient design and proper maintenance and operation	109.2	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Fire Pump (P004)	Diesel fuel	Efficient design and proper maintenance and operation	18.67	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Firewater Pumps (P005 and P006)	Diesel fuel	good operating practices (proper maintenance and operation)	23	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Emergency Diesel-fired Generator Engine (P007)	Diesel fuel	good operating practices (proper maintenance and operation)	200	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	1,000 kW Emergency Generators (P008 - P010)	Diesel fuel	good operating practices (proper maintenance and operation)	80	T/YR	per rolling 12 month period	BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Black Start Generator (P007)	Diesel fuel	Tier IV engine Good combustion practices	181.7	lb/hr		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Emergency Generators (P005 and P006)	Diesel fuel	Tier IV engine□ Good combustion practices	3632	lb/hr		BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Black Start Generator (P007)	Diesel fuel	Tier IV engine□ Good combustion practices	9.09	T/YR		BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Diesel-fired emergency fire pumps (2) (P009 and P010)	Diesel fuel	Tier IV engine and good combustion practices	521.6	G/B-HP-H		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	5,051 bhp (3,768 kWm) Diesel-Fired Emergency Generators: P001 through P046	Diesel fuel	Good combustion practices and proper maintenance and operation	162.7	lb/MMBtu	of actual heat input	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	275 hp (205 kW) Diesel-Fired Emergency Fire Pump Engine	Diesel fuel	Good combustion practices and proper maintenance and operation	162.7	lb/MMBtu		BACT-PSD	
RBLC	OK-0164	MIDWEST CITY AIR DEPOT	OK	01/08/2015	Diesel-Fueled Fire Pump Engines	Ultra-Low Sulfur Distillate Fuel	1. Good Combustion Practices.□ 2. Efficient Design.	44	TONS PER YEAR	total for 3 engines.	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Fire pump engine	Ultra-low sulfur diesel	No control listed	9	TON	12-month rolling basis	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	2000 kW Emergency Generator	Ultra-low sulfur Diesel	No control listed	81	TONS	12-month rolling basis	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fire Pump Engine	diesel	No control listed	14	TPY	12-month rolling basis	BACT-PSD	
RBLC	TX-0766	GOLDEN PASS LNG EXPORT TERMINAL	TX	09/11/2015	Emergency Engine Generators	Diesel	Equipment specifications & work practices - □ Good combustion practices and limited operational hours	40	HR/YR		BACT-PSD	
RBLC	TX-0799	BEAUMONT TERMINAL	TX	06/08/2016	Fire pump engines	diesel	Equipment specifications and good combustion practices. Operation limited to 100 hours per year.	72.16	T/YR		BACT-PSD	
RBLC	TX-0799	BEAUMONT TERMINAL	TX	06/08/2016	EMERGENCY ENGINES	diesel	Equipment specifications and good combustion practices. Operation limited to 100 hours per year.	6.79	T/YR		BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Emergency Generators	ULSD	Limiting duration and frequency of generator use to 100 hr/yr. Good combustion practices will be used to reduce VOC including maintaining proper air-to-fuel ratio.	No limit listed			BACT-PSD	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	Emergency generator	DIESEL	Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101, limited to 100 hours per year of non-emergency operation	No limit listed			BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	EMERGENCY GENERATORS & FIRE WATER PUMP ENGINES	Ultra-low Sulfur Diesel	well-designed and properly maintained engines and each limited to 100 hours per year of non-emergency use.	No limit listed			BACT-PSD	
RBLC	TX-0905	DIAMOND GREEN DIESEL PORT ARTHUR FACILITY	TX	09/16/2020	EMERGENCY GENERATOR	ULSD	limited to 100 hours per year of non-emergency operation	No limit listed			BACT-PSD	
RBLC	TX-0915	UNIT 5	TX	03/17/2021	DIESEL GENERATOR	DIESEL	LIMITED 500 HR/YR OPERATION	No limit listed			BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Emergency Generators	Ultra-low sulfur diesel (no more than 15	limited to 100 hours per year of non-emergency operation. EPA Tier 2 (40 CFR Â§ 1039.101) exhaust emission standards	No limit listed			BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	EMERGENCY GENERATOR	DIESEL	GOOD COMBUSTION PRACTICES, LIMITED TO 100 HR/YR	No limit listed			BACT-PSD	
RBLC	*TX-0976	CORPUS CHRISTI LIQUEFACTION STAGE 3	TX	05/30/2025	EMERGENCY GENERATOR	DIESEL	EPA Tier 2, limited to 100 hours per year of non-emergency operation. GHGs from the emergency engines will be limited through engine design and certification in accordance with standards, limited operational hours, and proper operation and maintenance	No limit listed			BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL	Good Combustion Practices/Maintenance	163.6	lb/MMBtu		N/A	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED WATER PUMP 376 bph (1)	DIESEL FUEL	Good Combustion Practices/Maintenance	104	T/YR	12 MO ROLLING TOTAL	N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Diesel GEN	ULSD	use of S15 ULSD and high efficiency design and operation	981	T/YR	12 MO ROLLING TOTAL	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Fire Water Pump	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	1040	T/YR	12 MO ROLLING TOTAL	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Diesel Generator - 300 kW	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	1203	T/YR	12 MO ROLLING TOTAL	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Fire Water Pump	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	106	T/YR	12 MO ROLLING TOTAL	BACT-PSD	
RBLC	VA-0333	NORFOLK NAVAL SHIPYARD	VA	12/09/2020	One (1) emergency engine generator	ULSD	No control listed	2.543	LB	HR	BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	Diesel-Fired Emergency Generators	Diesel Fuel	The Use of Ultra-Low Sulfur Fuel and Good Combustion Practices	No limit listed			BACT-PSD	
RBLC	WI-0286	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	P42 -Diesel Fired Emergency Generator	Diesel Fuel	Good Combustion Practices and The Use of Ultra-low Sulfur Fuel	No limit listed			BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	WI-0297	GREEN BAY PACKAGING MILL DIVISION	WI	12/10/2019	Diesel-Fired Emergency Fire Pump (P36)	Diesel	No control listed	200	H/Y	IN ANY CONSECUTIVE 12-MONTH PERIOD	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Fire Pump (P06)	Diesel	Be certified by manufacturer to EPA's criteria for Tier 3 reciprocating internal combustion engines and to the 40 CFR 60, Subpart IIII emission limitations, operation limited to 500 hours/year, and operate and maintain according to the manufacturer's recommendations.	No limit listed			BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Generator (P07)	Diesel	Certified to at least meet EPA's criteria for Tier 2 reciprocating internal combustion engines and the 40 CFR 60, Subpart IIII emission limitations, operation limited to 500 hours/year, and operate and maintain generator according to the manufacturer's recommendations.	No limit listed			BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Fire Pump; S06/P06 " Emergency Diesel Fire Pump	diesel	Selection of the most efficient reciprocating internal combustion engine and minimizing the hours of operation limits greenhouse gas emissions. □ - EPA Tier 3 certified reciprocating internal combustion engine and □ - limiting its hours of operation to 500 hours per each 12 consecutive calendar months. □ - Part of ensuring efficient engine operation is properly maintaining the engine and the combustion of clean fuels. In this case, clean fuel is determined to be ultra-low sulfur diesel fuel (less than 15 ppm sulfur content).	500	HOURS	12 ROLLING CALENDAR MONTHS	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Emergency Generator	diesel	Selection of the most efficient reciprocating internal combustion engine and minimizing the hours of operation limits greenhouse gas emissions. EPA Tier 2 certified reciprocating internal combustion engine and limiting its hours of operation to 500 hours per each 12 consecutive calendar months.	500	HOURS	PER EACH 12 ROLLING CALENDAR MONTHS	BACT-PSD	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Four ULSD-fired emergency generators with a standby rating of approximately 1,500 kW, two ULSD-fired fire water pump engines with a continuous rating of approximately 260 kW (350 bhp), and two 500 kW emergency generators associated with support buildings.		Use of ULSD	No limit listed			BACT	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	3000 kW emergency generator	ULSD	Efficient design and the use of low carbon fuels	No limit listed.			BACT	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	542 bhp emergency fire water pump	ULSD	Use of a 2012 or later model year diesel fired engine	No limit listed.			BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	3000 kWe emergency generator	ULSD	Efficient design and the use of low carbon fuels	No limit listed.			BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	376 bhp emergency fire water pump	ULSD	Use of a 2012 or later model year diesel fired engine	No limit listed.			BACT	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	100 kW emergency generator	Propane	Efficient design and the use of low carbon fuels	No limit listed.			BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	150 kWe emergency generator	Propane	Efficient design and the use of low carbon fuels	No limit listed.			BACT	

End of table

Appendix C-3c
BACT Analysis Database Search Results: Emergency Generators, CO
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Emergency Camp Generators	ULSD	No control listed	2.6	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Airstrip Generator Engine	ULSD	No control listed	2.6	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Agitator Generator Engine	ULSD	No control listed	3.7	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Incinerator Generator Engine	ULSD	No control listed	3.7	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Fine Water Pumps	ULSD	No control listed	2.6	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Bulk Tank Generator Engines	ULSD	No control listed	2.6	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Black Start and Emergency Internal Combustion Engines	Diesel	Good Combustion Practices	4.38	G/KW-HR 3-hour average	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Fire Pump Diesel Internal Combustion Engines	Diesel	Good Combustion Practices	3.3	G/KW-HR 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	One (1) Black Start Generator Engine	ULSD	Oxidation Catalyst, Good Combustion Practices, and 500 hour limit per year.	3.3	G/HP-HR 3-hour average	BACT-PSD	4.42 g/kWh
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Three (3) Firewater Pump Engines and two (2) Emergency Diesel Generators	ULSD	Good combustion practices, limit operation to 500 hours per year per engine	3.3	G/HP-HR 3-hour average	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Diesel Fire Pump Engine	Diesel	Oxidation Catalyst; Limited Operation; 40 CFR 60 Subpart IIII	3.3	G/HP-HR	BACT-PSD	4.42 g/kWh
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Auxiliary Air Compressor Engine	Diesel	Good Combustion Practices; Limited Operation; 40 CFR 60 Subpart IIII	3.3	G/HP-HR	BACT-PSD	
RBLC	AL-0318	TALLADEGA SAWMILL	AL	12/18/2017	250 Hp Emergency CI, Diesel-fired RICE	Diesel	No control listed	No limit listed		N/A	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	Diesel Emergency Engines	Diesel	No control listed	2.6	G/BHP-HR	BACT-PSD	
RBLC	AR-0161	SUN BIO MATERIAL COMPANY	AR	09/23/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	3.5	G/KW-H	BACT-PSD	
RBLC	AR-0163	BIG RIVER STEEL LLC	AR	06/09/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	3.5	G/KW-HR	BACT-PSD	
RBLC	AR-0177	NUCOR STEEL ARKANSAS	AR	11/21/2022	SN-230 Galvanizing Line No, 2 Emergency Generator	Diesel	No control listed	3.5	G/KW-HR	BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Generators	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.9	G/BHP-HR	BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Water Pumps	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	3.03	G/BHP-HR	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Three 3300-kW ULSD emergency generators	ULSD	Use of clean engine	3.5	G / KW-HR	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	One 422-hp emergency fire pump engine	ULSD	Use of clean engine technology	3.5	G / KW-HR	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	Two 3300 kW emergency generators	ULSD	Certified engine	3.5	GRAMS PER KWH	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	Emergency Fire Pump Engine (422 hp)	ULSD	Certified engine	3.5	G / KWH	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	1,500 kW Emergency Diesel Generator	ULSD	Operate and maintain the engine according to the manufacturer's written instructions	3.5	G/KW-HOUR	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	Emergency Fire Pump Engine (347 HP)	ULSD	Operate and maintain the engine according to the manufacturer's written instructions	3.5	G/KW-HOUR	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	1,500 kW Emergency Diesel Generator	ULSD	No control listed	3.5	G/KW-HOUR	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	Emergency Fire Pump Engine (347 HP)	ULSD	No control listed	3.5	G/KW-HOUR	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Emergency Engines	Ultra-low sulfur diesel	No control listed	No limit listed		BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Firewater Pump Engine	Ultra-low sulfur diesel	No control listed	No limit listed		BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Firewater Pump Engine	Ultra-Low Sulfur Diesel	No control listed	3.5	G/KW-HR	BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Emergency Engine	Ultra-Low Sulfur Diesel	No control listed	3.5	G/KW-HR	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Emergency Engines	Ultra-Low Sulfur Diesel	No control listed	3.5	GRAMS kilowatt-hour	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Fire Water Pump Engine	Ultra-Low Sulfur Diesel	No control listed	3.5	GRAMS kilowatt-hour	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Emergency Generator Engine	Diesel Fuel	No control listed	3.5	G/KW-HR 3-hr avg	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Firewater Pump Engine	Diesel Fuel	No control listed	3.5	G/KW-HR 3-hr avg	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	EMERGENCY GENERATORS (EU014A AND EU-014B)	DISTILLATE OIL	GOOD COMBUSTION PRACTICES	2.61	G/HP-H EACH 3 hour average	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency generator EU-6006	Diesel	Tier II diesel engine	3.5	G/KWH	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency fire pump EU-6008	Diesel	Engine that complies with Table 4 to Subpart IIII of Part 60	3.5	G/KWH	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	emergency generator EU 014a	distillate oil	No control listed	2.61	G/HP-HR	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN1)	diesel	oxidation catalyst and certified engine	2.61	G/HP-HR	BACT-PSD	3.50 g/kWh
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN2)	diesel	oxidation catalyst and certified engine	2.61	G/HP-HR	BACT-PSD	3.50 g/kWh
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency generator	ULSD	No control listed	2.6	G/HP-HR	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency fire pump	Diesel	No control listed	3.5	G/KW-HR	BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.-CAYUGA GENERATING STATION	IN	02/14/2025	Emergency Generators	Diesel	good combustion practices	2.61	G/HP-HR	BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.-CAYUGA GENERATING STATION	IN	02/14/2025	Emergency fire pump	Diesel	good combustion practices	No limit listed		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Black Start Emergency Generators	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel, and limited operating hours	2.6	G hp-hr	BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	plant emergency generator	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel	2.6	G hp-hr	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	emergency fire water pump	ultra-low sulfur diesel	Good Combustion practices, low sulfur fuel	2.6	G	hp-hr	BACT-PSD	
RBLC	KY-0109	FRITZ WINTER NORTH AMERICA, LP	KY	10/24/2016	Emergency Generators #1, #2, & #3 (EU72, EU73, & EU74)	Diesel	The permittee shall prepare and maintain for EU72, EU73, and EU74, within 90 days of startup, a good combustion and operation practices plan (GCOP) that defines, measures ☐ and verifies the use of operational and design practices determined as BACT for minimizing CO, VOC, PM, PM10, and PM2.5 emissions. Any revisions requested by the ☐ Division shall be made and the plan shall be maintained on site. The permittee shall operate according to the provisions of this plan at all times, including periods of startup, shutdown, and malfunction. The plan shall be incorporated into the plant standard operating procedures (SOP) and shall be made available for the Division's inspection. The plan shall include, but not be limited to: ☐ i. A list of combustion optimization practices and a means of verifying the practices have occurred. ☐ ii. A list of combustion and operation practices to be used to lower energy consumption and a means of verifying the practices have occurred. ☐ iii. A list of the design choices determined to be BACT and verification that designs were implemented in the final construction.	2.6	G/HP-HR (EU72 & EU73)	req. manufacturer's cert	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-02 - North Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.61	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-03 - South Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.61	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-04 - Emergency Fire Water Pump	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.61	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-01 - Melt Shop Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.61	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-02 - Reheat Furnace Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.61	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-07 - Air Separation Plant Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.61	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-01 - Caster Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.61	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-03 - Rolling Mill Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.61	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-04 - IT Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.61	G/HP-HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-05 - Radio Tower Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	3.73	G/HP-HR		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	New Pumphouse (XB13) Emergency Generator #1 (EP 08-05)	Diesel	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	No limit listed			BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Tunnel Furnace Emergency Generator (EP 08-06)	Diesel	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	No limit listed			BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Caster B Emergency Generator (EP 08-07)	Diesel	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	No limit listed			BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Air Separation Unit Emergency Generator (EP 08-08)	Diesel	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	No limit listed			BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Complex Emergency Generator (EP 09-05)	Diesel	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	No limit listed			BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Diesel Engines (Emergency)	Diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Diesel Engines	Diesel	good combustion practices, Use ULSD, and comply with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Firewater Pump Engines	Diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Emergency Generator Engines	Diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DFP1-13 - Diesel Fire Pump Engine (EQT0013)	Diesel	Compliance with NSPS Subpart IIII	0.9	lb/hr		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DEG1-13 - Diesel Fired Emergency Generator Engine (EQT0012)	Diesel	Compliance with NSPS Subpart IIII	0.51	lb/hr		BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Generator 1	Diesel	Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel).	14.81	lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Firewater Pump 1	Diesel	Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel).	1.62	lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	firewater pump engines (8 units)	diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	emergency generator engines (6 units)	diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	Emergency Generator Engines (4 units)	Diesel	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	No limit listed			BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	Firewater pump Engines (4 units)	diesel	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	No limit listed			BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Fire Water Diesel Pump No. 3 Engine	Diesel Fuel	Proper operation and limits on hours operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Fire Water Diesel Pump No. 4 Engine	Diesel Fuel	Proper operation and limits on hours of operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed		BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Standby Generator No. 9 Engine	Diesel Fuel	Proper operation and limits on hours of operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed		BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Firewater Pump Engine (EQT0017 - EQT0020)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	0.55	G/KW-HR	BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Generator Engines (EQT0016)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	1.21	G/KW-HR	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Firewater Pumps	Diesel Fuel	Good Combustion and Operating Practices.	3.7	G/HP-H	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Large Emergency Engines (>50kW)	Diesel Fuel	Good Combustion and Operating Practices.	3.5	G/KW-H	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Generator Diesel Engines	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Fire Water Pumps	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed		BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	PVC Emergency Combustion Equipment A	Diesel	Good combustion practices/gaseous fuel burning.	8.5	G/HP-HR	BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	PVC Emergency Combustion Equipment 2A and 2B	Diesel	Compliance with 40 CFR 60 Subpart IIII.	2.6	G/HP-HR	BACT-PSD	
RBLC	LA-0382	BIG LAKE FUELS METHANOL PLANT	LA	04/25/2019	Emergency Engines (EQT0014 - EQT0017)	Diesel	Comply with standards of 40 CFR 60 Subpart IIII	No limit listed		BACT-PSD	
RBLC	LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	LA	09/03/2020	Emergency Engines (EQT0011 - EQT0016)	Diesel	Comply with 40 CFR 60 Subpart IIII	No limit listed		BACT-PSD	
RBLC	LA-0388	LACC LLC US - ETHYLENE PLANT	LA	02/25/2022	Firewater Pump Engine No. 1 and 2	Diesel	Compliance with 40 CFR 60 Subpart IIII	3.97	lb/hr	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Generator Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII, good combustion practices, and the use of ultra-low sulfur diesel fuel.	2.6	G/HP-HR	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Fired Water Pump Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII, good combustion practices, and the use of ultra-low sulfur diesel fuel.	2.6	G/HP-HR	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	05-22 - AO-5 BDL Area PAD Sump Pump Driver	Diesel	Use of good combustion practices and compliance with NSPS Subpart IIII	1.14	lb/hr hourly maximum	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	06-22 - AO-5 Emergency Generator	Diesel	Use of good combustion practices and compliance with NSPS Subpart IIII	3.81	lb/hr hourly maximum	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	52-22 - PAO Area PAD Sump Pump Driver	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII	1.14	lb/hr hourly maximum	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	53-22 - PAO Emergency Generator	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII	3.81	lb/hr hourly maximum	BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	EGEN - Plant Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	20.91	lb/hr	BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-01 - Firewater Pump Engine No. 1	Diesel	Compliance with 40 CFR 60 Subpart IIII	3.44	lb/hr	BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-02 - Firewater Pump Engine No. 2	Diesel	Compliance with 40 CFR 60 Subpart IIII	3.44	lb/hr	BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-03 - Firewater Pump Engine No. 3	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	0.5	lb/hr	BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	E. GEN 01 - Generac SD 2000	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	2.9	lb/hr	BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	E. GEN 02 - Generac SD 2000	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	2.9	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6A - C/A Emergency Generator A	Diesel	Compliance with 40 CFR 60 Subpart IIII.	13.5	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6B - C/A Emergency Generator B	Diesel	Compliance with 40 CFR 60 Subpart IIII	13.5	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6C - C/A Emergency Generator C	Diesel	Compliance with 40 CFR 60 Subpart IIII	13.5	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7A - Fire Water Pump A	Diesel	Compliance with 40 CFR 60 Subpart IIII	2.71	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7B - Fire Water Pump B	Diesel	Compliance with 40 CFR 60 Subpart IIII	3.18	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7C - Fire Water Pump C	Diesel	Compliance with 40 CFR 60 Subpart IIII	3.18	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-10 - Utility Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	11.57	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-11 - Substation Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.58	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-12 - VCM/CA/UT CCR Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	4.37	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11A - VCM Emergency Generator A	Diesel	Compliance with 40 CFR 60 Subpart IIII	13.5	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11B - VCM Emergency Generator B	Diesel	Compliance with 40 CFR 60 Subpart IIII	13.5	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11C - VCM Emergency Pump A	Diesel	Compliance with 40 CFR 60 Subpart IIII	1.15	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11D - VCM Emergency Pump B	Diesel	Compliance with 40 CFR 60 Subpart IIII	1.15	lb/hr	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11E - VCM Emergency Pump C	Diesel	Compliance with 40 CFR 60 Subpart IIII	1.15	lb/hr	BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	Diesel Emergency Generator (EQT0012)	diesel	Proper equipment design and good combustion practices.□ Use ultra-low sulfur diesel as fuel.□ Low emission combustion.□ Compliance with 40 CFR 60 Subpart IIII.	2.6	G/HP-HR	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	MA-0043	MIT CENTRAL UTILITY PLANT	MA	06/21/2017	Cold Start Engine	ULSD	No control listed	2.2	lb/hr	1 hr block avg	OTHER CASE-BY-CASE	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	Good design and combustion practices.	3.5	G/KW-H	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Dieself fire pump engine (EUFIREPUMP in FGRICE)	Diesel	Good design and combustion practices.	3.5	G/KW-H	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUENGINE (Diesel fuel emergency engine)	Diesel Fuel	Good combustion practices and meeting NSPS Subpart IIII requirements.	3.5	G/KW-H	test protocol shall specify avg time	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUPENGINE (Emergency engine--diesel fire pump)	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	2.6	G/BHP-H	test protocol will specify avg. time	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMRGRICE1 in FGRICE (Emergency diesel generator engine)	Diesel	Good design and combustion practices.	3.5	G/KW-H	test protocol shall specify	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMRGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	Good design and combustion practices.	3.5	G/KW-H	test protocol shall specify	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFIREPUMP in FGRICE (Diesel fire pump engine)	Diesel	Good design and combustion practices.	3.5	G/KW-H	test protocol shall specify	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (South Plant): Fire pump engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	2.6	G/BPH-H	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (North Plant): Emergency Engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (North Plant): Fire pump engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	2.6	G/BHP-H	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (South Plant): Emergency Engine	Diesel	Good combustion practices and meeting NSPS IIII requirements.	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUENGINE: Emergency engine	Diesel	State of the art combustion design.	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUPENGINE: Fire pump engine	Diesel	State of the art combustion design.	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUEMGD1--A 1500 HP diesel fueled emergency engine	Diesel	Good combustion practices and will be NSPS compliant.	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUEMGD2--A 6000 HP diesel fuel fired emergency engine	Diesel	Good combustion practices and will be NSPS compliant.	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUPPRICE--A 315 HP diesel fueled emergency engine	Diesel	Good combustion practices.	2.6	G/HP-H	hourly	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGENGINE	Diesel	No control listed	0.15	G/HP-H	hourly; each engine	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUPENGINE (Emergency engine-diesel fire pump	diesel fuel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	2.6	G/BHP-H	hourly	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUENGINE (diesel fuel emergency engine)	diesel fuel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUEMGD--emergency engine	diesel fuel	Good combustion practices and will be NSPS compliant.	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0447	LBWL--ERICKSON STATION	MI	01/07/2021	EUPPRICE--A 315 HP diesel fueled emergency engine	Diesel	Good combustion practices	2.6	G/HP-H	hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMRGRICE1 in FGRICE)	Diesel	Good design and combustion practices	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMRGRICE2 in FGRICE)	Diesel	Good Design and Combustion Practices	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Diesel fire pump engine (EUFIREPUMP in FGRICE)	Diesel	Good Design and Combustion Practices	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUPENGINE (North Plant): Fire Pump Engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements	2.6	G/B-HP-H	hourly	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUENGINE (North Plant): Emergency engine	Diesel	Good combustion practices and meeting NSPS IIII requirements.	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUENGINE (South Plant): Emergency engine	Diesel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUPENGINE (South Plant): Fire pump engine	Diesel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	2.6	G/B-HP-H	hourly	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUPPRICE--A 315 HP diesel-fueled emergency engine	Diesel	Good combustion practices.	2.6	G/HP-H	hourly	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUEMGD	Diesel	Good combustion practices and will be NSPS compliant.	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUEMGEN	Diesel	Good combustion practices	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUFIREPUMP	Diesel	Good combustion practices	3.5	G/KW-H	hourly	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 2 (EQUI 26)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	2.6	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 3 (EQUI 27)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	2.6	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 4 (EQUI 28)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	2.6	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 5 (EQUI 43)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	2.6	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 6 (EQUI 43)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	2.6	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Diesel Fired Emergency Generator	ULSD	use of ULSD oil a clean burning fuel	3.5	lb/hr		BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Emergency Diesel Fire Pump	ULSD	use of ULSD a clean burning fuel, and limited hours of operation	1.1	lb/hr		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Black start generator	ULSD	Compliance demonstrated with vendor emission certification and adherence to vendor-specified maintenance recommendations.	2.6	G/BHP-H 1 h	BACT-PSD	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Emergency fire pump	ULSD	Compliance demonstrated with vendor emission certification and adherence to vendor-specified maintenance recommendations.	0.53	G/BHP-H 1 h	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	1.15	lb/hr	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	13.5	lb/hr	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	1.79	lb/hr	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	16.96	lb/hr	BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Fire Pump Diesel Engine (P008)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	2.6	lb/hr	BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Generator (P009)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	28.8	lb/hr	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	8.8	lb/hr	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	1.73	lb/hr	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	8.8	lb/hr	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency fire pump engine (P004)	Diesel fuel	state of the art combustion design	1.73	lb/hr	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Generators (2 identical, P004 and P005)	Diesel fuel	Certified to the meet the emissions standards in 40 CFR 89.112 and 89.113 pursuant to 40 CFR 60.4205(b) and 60.4202(a)(2). □ Good combustion practices per the manufacturerâ€™s operating manual.	12.69	lb/hr	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Fire Pump (P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII. Good combustion practices per the manufacturerâ€™s operating manual.	2.36	lb/hr	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Generator Engine (P001)	Diesel fuel	Good combustion design	12.64	lb/hr	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Fire Pump Engine (P002)	Diesel fuel	Good combustion design	4.01	lb/hr	BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Emergency diesel-fueled fire pump (P006)	Diesel fuel	Comply with NSPS 40 CFR 60 Subpart IIII	1.4	lb/hr	BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Emergency diesel-fired generator (P007)	Diesel fuel	Comply with NSPS 40 CFR 60 Subpart IIII	15.4	lb/hr	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Fire Pump (P004)	Diesel fuel	Good combustion practices (ULSD) and compliance with 40 CFR Part 60, Subpart IIII	1.83	lb/hr	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Firewater Pumps (P005 and P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII and employ good combustion practices per the manufacturerâ€™s operating manual	2.31	lb/hr	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Emergency Diesel-fired Generator Engine (P007)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	19.25	lb/hr	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	1,000 kW Emergency Generators (P008 P010)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	7.7	lb/hr	BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Black Start Generator (P007)	Diesel fuel	Tier IV engine □ Good combustion practices	0.0644	T/YR	BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Diesel-fired emergency fire pumps (2) (P009 and P010)	Diesel fuel	Tier IV NSPS standards certified by engine manufacturer.	No limit listed		BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Emergency Generators (P005 and P006)	Diesel fuel	Tier IV engine □ Good combustion practices	No limit listed		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	5,051 bhp (3,768 kWm) Diesel-Fired Emergency Generators: P001 through P046	Diesel fuel	Certified to meet Tier 2 standards and good combustion practices	3.5	G/KW-H	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	275 hp (205 kW) Diesel-Fired Emergency Fire Pump Engine	Diesel fuel	Certified to meet the standards in Table 4 of 40 CFR Part 60, Subpart IIII and good combustion practices	3.5	G/KW-H	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Fire pump engine	Ultra-low sulfur diesel	No control listed	0.5	GM/HP-HR	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	2000 kW Emergency Generator	Ultra-low sulfur Diesel	No control listed	0.6	GM/HP-HR	BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Emergency Generator Engines	ULSD	No control listed	2.61	G/BHP-HR	BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Emergency Fire Pump Engine	ULSD	No control listed	2.61	G/BHP-HR	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fire Pump Engine	diesel	No control listed	1	G/HP-HR	BACT-PSD	
RBLC	*PA-0313	FIRST QUALITY TISSUE LOCK HAVEN PLT	PA	07/27/2017	Emergency Generator	Diesel	No control listed	3.5	G KW-HR		
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Emergency Diesel Generator	Diesel	Minimized hours of operations Tier II engine	0.0126	G/HP HR	OTHER CASE-BY-CASE	
RBLC	TX-0799	BEAUMONT TERMINAL	TX	06/08/2016	Fire pump engines	diesel	Equipment specifications and good combustion practices. Operation limited to 100 hours per year.	0.0055	LB/HP-HR	BACT-PSD	
RBLC	TX-0799	BEAUMONT TERMINAL	TX	06/08/2016	EMERGENCY ENGINES	diesel	Equipment specifications and good combustion practices. Operation limited to 100 hours per year.	0.0068	LB/HP-HR	BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Emergency Generators	ULSD	Limiting duration and frequency of generator use to 100 hr/yr. Good combustion practices will be used to reduce VOC including maintaining proper air-to-fuel ratio.	0.6	G/KW HR	BACT-PSD	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	Emergency generator	DIESEL	Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101, limited to 100 hours per year of non-emergency operation	No limit listed		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	EMERGENCY GENERATORS & FIRE WATER PUMP ENGINES	Ultra-low Sulfur Diesel	well-designed and properly maintained engines and each limited to 100 hours per year of non-emergency use.	No limit listed	BACT-PSD	
RBLC	TX-0904	MOTIVA POLYETHYLENE MANUFACTURING COMPLEX	TX	09/09/2020	EMERGENCY GENERATOR	ULSD	100 HOURS OPERATIONS, Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101	No limit listed	BACT-PSD	
RBLC	TX-0905	DIAMOND GREEN DIESEL PORT ARTHUR FACILITY	TX	09/16/2020	EMERGENCY GENERATOR	ULSD	limited to 100 hours per year of non-emergency operation	No limit listed	BACT-PSD	
RBLC	TX-0915	UNIT 5	TX	03/17/2021	DIESEL GENERATOR	DIESEL	LIMITED 500 HR/YR OPERATION	2.61 G/HPHR	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Emergency Generators	Ultra-low sulfur diesel (no more than 15	limited to 100 hours per year of non-emergency operation. EPA Tier 2 (40 CFR Â§ 1039.101) exhaust emission standards	No limit listed	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	EMERGENCY GENERATOR	DIESEL	GOOD COMBUSTION PRACTICES, LIMITED TO 100 HR/YR	0.006 LB/HP HR	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	*TX-0976	CORPUS CHRISTI LIQUEFACTION STAGE 3	TX	05/30/2025	EMERGENCY GENERATOR	DIESEL	EPA Tier 2, limited to 100 hours per year of non-emergency operation. GHGs from the emergency engines will be limited through engine design and certification in accordance with standards, limited operational hours, and proper operation and maintenance	No limit listed	BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL	Good Combustion Practices/Maintenance	3.5 G/KW PER HR	N/A	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED WATER PUMP 376 bph (1)	DIESEL FUEL	Good Combustion Practices/Maintenance	2.6 G/HP-H HR	N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Diesel GEN	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	2.6 G/HP H	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Fire Water Pump	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	2.6 G/HP HR	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Diesel Generator - 300 kW	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	2.6 G/HP-H	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Fire Water Pump	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	2.6 G/HP-H	BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. -ENERGY PLANT	WI	04/24/2018	Diesel-Fired Emergency Generators	Diesel Fuel	Good Combustion Practices	0.6 G/KWH	BACT-PSD	
RBLC	WI-0286	SIO INTERNATIONAL WISCONSIN, INC. -ENERGY PLANT	WI	04/24/2018	P42 -Diesel Fired Emergency Generator	Diesel Fuel	Good Combustion Practices	0.6 G/KWH	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Fire Pump (P06)	Diesel	Operation limited to 500 hours/year and shall be operated and maintained according to the manufacturer's recommendations.	2.6 G/HP-H	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Generator (P07)	Diesel	Operation limited to 500 hours/year, and operate and maintain generator according to the manufacturer's recommendations.	2.6 G/HP-H	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Fire Pump; S06/P06 " Emergency Diesel Fire Pump	diesel	Good combustion practices: (a) P06 may not operate more than 500 hours per each 12 rolling calendar months. (b) P06 shall be operated and maintained according to the manufacturer's recommendations. (c) Carbon monoxide emission from P06 may not exceed 2.6 g/hp-hr.	2.6 G/HP-HR	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Emergency Generator	diesel	Good combustion practices which include operational and design elements.	2.6 G/HP-HR	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Emergency Generator	ULSD	Good Combustion Practices w/ OxCat. Applicant did not justify why an oxcat is infeasible for an emergency engine	1.94 lb/hr	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Fire Water Pump	ULSD	Good Combustion Practices w/ OxCat. Applicant did not justify why an oxcat is infeasible for an emergency engine	1.38 lb/hr	BACT-PSD	
CARB/SC AQMD	516409	US GOVT, VET. AFFAIRS MED CTR	CA	12/10/2015	Diesel fuel, six cylinders, turbocharged and aftercooled. Drives an emergency electricity generator. 374 BHP.	Diesel	Diesel Particulate Filter with hiback data logging and alarm system to automatically shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	2.6 g/bhp-hr	BACT, LAER	
CARB/SC AQMD	516708	LA County Sheriff's Department	CA	12/10/2015	Diesel fuel, 16 cylinders, turbocharged and aftercooled emergency electricity generator. 2220 BHP.	Diesel	Diesel Particulate Filter with CRTDM diagnostic module, data logging and alarm system to auto shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	2.6 g/bhp-hr	BACT, LAER	
CARB/SC AQMD	558397	University of Southern California	CA	12/10/2015	Diesel fuel, six cylinders, turbocharged and aftercooled. Drives an emergency electricity generator. 755 BHP.	Diesel	Diesel Particulate Filter with hiback data logging and alarm system to automatically shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	2.6 g/bhp-hr	BACT, LAER	
CARB/SC AQMD	504556	SFPP.LP	CA	2/1/2019	Emergency fire pump powered by a compression ignition turbocharged internal combustion engine. 183 BHP, four cycle, lean burn, six cylinders.	Diesel	Manufacturer's certification to Tier 3 emission standards.	2.6 g/bhp-hr 15% O2 correction	BACT, LAER	
BAAQMD	96.1.3	Bay Area	CA	12/2/2024	IC Engine - Compression Ignition: Stationary Emergency, non-Agriculture, non-direct drive fire pump with a BHP Output between 50 and 1000		US EPA Final Tier 4 standard for CO at applicable hp rating	No limit listed	BACT-PSD	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Four ULSD-fired emergency generators with a standby rating of approximately 1,500 kW, two ULSD-fired fire water pump engines with a continuous rating of approximately 260 kW (350 bhp), and two 500 kW emergency generators associated with support buildings.		Tier 2 and Tier 3 engines	No limit listed	BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	3000 kW emergency generator	ULSD	Compliance with NSPS IIII	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	542 bhp emergency fire water pump	ULSD	Compliance with NSPS IIII	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	3000 kWe emergency generator	ULSD	Compliance with NSPS IIII	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	376 bhp emergency fire water pump	ULSD	Compliance with NSPS IIII	No limit listed.	BACT	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	100 kW emergency generator	Propane	Compliance with NSPS JJJJ	No limit listed.	BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	150 kW emergency generator	Propane	Compliance with NSPS JJJJ	No limit listed.	BACT	

End of table

Appendix C-3d
BACT Analysis Database Search Results: Emergency Generators, SO2
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	One (1) Black Start Generator Engine	ULSD	Good combustion practices, ULSD, and limit operation to 500 hours per year.	15 PPMW SULFUR IN FUEL	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Three (3) Firewater Pump Engines and two (2) Emergency Diesel Generators	ULSD	Good combustion practices, ULSD, and limit operation to 500 hours per year.	15 PPMW SULFUR IN FUEL	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Diesel Fire Pump Engine	Diesel	Good Combustion Practices; ULSD; Limited Operation;	15 PPMW SULFUR IN FUEL	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Auxiliary Air Compressor Engine	Diesel	Good Combustion Practices; ULSD; Limited Operation;	15 PPMW SULFUR IN FUEL	BACT-PSD	
RBLC	AL-0318	TALLADEGA SAWMILL	AL	12/18/2017	250 Hp Emergency CI, Diesel-fired RICE	Diesel	No control listed	No limit listed	N/A	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	Diesel Emergency Engines	Diesel	No control listed	15 PPM fuel sulfur limit	BACT-PSD	
RBLC	AR-0161	SUN BIO MATERIAL COMPANY	AR	09/23/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.007 G/KW-HR	BACT-PSD	
RBLC	AR-0163	BIG RIVER STEEL LLC	AR	06/09/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.0015 % SULFUR FUEL	BACT-PSD	
RBLC	AR-0177	NUCOR STEEL ARKANSAS	AR	11/21/2022	SN-230 Galvanizing Line No. 2 Emergency Generator	Diesel	Fuel Specification	15 PPM FUEL	BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Generators	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	15 PPM MAX FUEL CONTENT	BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Water Pumps	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	15 PPM MAX FUEL CONTENT	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Three 3300-kW ULSD emergency generators	ULSD	Use of ULSD	0.0015 % S IN ULSD	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	One 422-hp emergency fire pump engine	ULSD	Use of ULSD	0.0015 % S IN ULSD	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	Two 3300 kW emergency generators	ULSD	Clean fuel	15 PPM S IN FUEL	BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	Emergency Fire Pump Engine (422 hp)	ULSD	Clean fuel	15 PPM S IN FUEL	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	1,500 kW Emergency Diesel Generator	ULSD	Clean fuel	15 PPM S IN FUEL	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	Emergency Fire Pump Engine (347 HP)	ULSD	Clean fuel	15 PPM S IN FUEL	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	1,500 kW Emergency Diesel Generator	ULSD	No control listed	15 PPM S IN FUEL	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	Emergency Fire Pump Engine (347 HP)	ULSD	No control listed	15 PPM S IN FUEL	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Emergency Engines	Ultra-Low Sulfur Diesel	Use of ultra-low sulfur diesel, with a sulfur content < 15 ppm sulfur.	No limit listed	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Fire Water Pump Engine	Ultra-Low Sulfur Diesel	Use of ultra-low sulfur diesel, with a sulfur content < 15 ppm sulfur.	No limit listed	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency generator EU-6006	Diesel	ULSD	15 PPM fuel sulfur content (ulsd)	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency fire pump EU-6008	Diesel	Engine that complies with Table 4 to Subpart IIII of Part 60□ fuel sulfur limitation	15 PPM fuel sulfur content (ulsd)	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN1)	diesel	ultra-low sulfur diesel fuel (0.0015%S)	No limit listed	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN2)	diesel	ultra-low sulfur diesel fuel (0.0015%S)	No limit listed	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency generator	ULSD	No control listed	0.0016 LB PER MMBTU	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency fire pump	Diesel	No control listed	0.0016 LB PER MMBTU	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-02 - North Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-03 - South Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-04 - Emergency Fire Water Pump	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-01 - Melt Shop Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-02 - Reheat Furnace Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-07 - Air Separation Plant Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-01 - Caster Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-03 - Rolling Mill Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-04 - IT Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-05 - Radio Tower Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Diesel Engines (Emergency)	Diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed	BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Firewater Pump Engines	Diesel	No control listed	No limit listed	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Emergency Generator Engines	Diesel	No control listed	No limit listed	BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Firewater Pump Engine (EQT0017 - EQT0020)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	0.0015 LB/MM BTU	BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Generator Engines (EQT0016)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	0.0015 LB/MM BTU	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Firewater Pumps	Diesel Fuel	Ultra-Low Sulfur Diesel Fuel with Sulfur Content of 15 ppmv.	0.04 LB/GAL	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Large Emergency Engines (>50kW)	Diesel Fuel	Ultra-low sulfur diesel fuel with sulfur content of 15 ppmv.	No limit listed	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Generator Diesel Engines	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Fire Water Pumps	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed	BACT-PSD	
RBLC	MA-0043	MIT CENTRAL UTILITY PLANT	MA	06/21/2017	Cold Start Engine	ULSD	No control listed	0.029 lb/hr	OTHER CASE-BY-CASE	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUENGINE (Diesel fuel emergency engine)	Diesel Fuel	Good combustion practices and meeting NSPS Subpart IIII requirements.	15 PPM fuel supplier certification records	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUPENGINE (Emergency engine--diesel fire pump)	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	15 PPM fuel sup. cert. records or sample test	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (South Plant): Fire pump engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	15 PPM fuel supplier records or fuel sample data	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (North Plant): Emergency Engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	15 PPM fuel supplier certif. records	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUPENGINE (North Plant): Fire pump engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	15 PPM fuel supplier records	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (South Plant): Emergency Engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	15 PPM fuel supplier records or sample test data	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUPENGINE (Emergency engine-diesel fire pump	diesel fuel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	15 PPM fuel supplier cert. records or test data	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUENGINE (diesel fuel emergency engine)	diesel fuel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	15 PPM fuel supplier cert. records or test data	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUPENGINE (North Plant): Fire Pump Engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	15 PPM fuel supplier records or sample test	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUENGINE (North Plant): Emergency engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	15 PPM fuel supplier records or sample test	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUENGINE (South Plant): Emergency engine	Diesel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	15 PPM fuel supplier records or sample test	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUPENGINE (South Plant): Fire pump engine	Diesel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	15 PPM fuel supplier records or sample test	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency fire pump engine (P004)	Diesel fuel	ULSD fuel	0.004 lb/hr	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency generator (P003)	Diesel fuel	ULSD fuel	0.03 lb/hr	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency generator (P003)	Diesel fuel	ULSD fuel	0.016 lb/hr	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency fire pump engine (P004)	Diesel fuel	ULSD fuel	3.2 X10-3 LB/H	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency generator (P003)	Diesel fuel	ULSD fuel	0.016 lb/hr	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency fire pump engine (P004)	Diesel fuel	ULSD fuel	3.2 X10-3 LB/H	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Generators (2 identical, P004 and P005)	Diesel fuel	ultra-low sulfur diesel (ULSD) fuel with a sulfur content of less than 15 ppm (0.0015 percent by weight)	0.0015 lb/MMBtu	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Fire Pump (P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII. Good combustion practices per the manufacturerâ€™s operating manual.	0.0015 lb/MMBtu	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Diesel Generator (P003)	Diesel fuel	ultra-low sulfur diesel (ULSD) fuel with a sulfur content of less than 15 ppm (0.0015 percent by weight)	0.0015 lb/MMBtu	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Fire Pump (P004)	Diesel fuel	ultra-low sulfur diesel (ULSD) fuel with a sulfur content of less than 15 ppm (0.0015 percent by weight)	0.0015 lb/MMBtu	BACT-PSD	
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Emergency Diesel Generator	Diesel	Low sulfur fuel 15 ppmw	0.61 lb/hr	OTHER CASE-BY-CASE	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	Emergency generator	DIESEL	Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101, limited to 100 hours per year of non-emergency operation	15 PPMW total sulfur	BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	EMERGENCY GENERATORS & FIRE WATER PUMP ENGINES	Ultra-low Sulfur Diesel	ultra-low sulfur diesel (15 ppmw sulfur content).	No limit listed	BACT-PSD	
RBLC	TX-0904	MOTIVA POLYETHYLENE MANUFACTURING COMPLEX	TX	09/09/2020	EMERGENCY GENERATOR	ULSD	100 HOURS OPERATIONS, Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101	No limit listed	BACT-PSD	
RBLC	TX-0911	FORMOSA POINT COMFORT PLANT	TX	12/15/2020	EMERGENCY GENERATOR ENGINE	ULSD	ULTRA LOW SULFUR FUEL	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Emergency Generators	Ultra-low sulfur diesel (no more than 15	limited to 100 hours per year of non-emergency operation. EPA Tier 2 (40 CFR Â§ 1039.101) exhaust emission standards	No limit listed	BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL	ULSD/Fuel (15 ppm max)	0.0015 lb/MMBtu	N/A	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED WATER PUMP 376 bph (1)	DIESEL FUEL	ULSD/Fuel (15 ppm max)	0.0015 lb/MMBtu	N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Diesel GEN	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	No limit listed	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Fire Water Pump	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	No limit listed	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Diesel Generator - 300 kW	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.0015 lb/MMBtu	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emegency Fire Water Pump	ULSD	: good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.0015 lb/MMBtu	BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. -ENERGY PLANT	WI	04/24/2018	Diesel-Fired Emergency Generators	Diesel Fuel	The Use of Ultra-Low Sulfur Fuel and Good Combustion Practices	No limit listed	BACT-PSD	
RBLC	WI-0286	SIO INTERNATIONAL WISCONSIN, INC. -ENERGY PLANT	WI	04/24/2018	P42 -Diesel Fired Emergency Generator	Diesel Fuel	Good Combustion Practices and The Use of Ultra-low Sulfur Fuel	No limit listed	BACT-PSD	
BAAQMD	17.3.1	Bay Area	CA	8/4/2010	Boilers with greater than or equal to 50 MMBtu/hr heat input.		Natural gas or treated refinery gas fuel with <0.50 ppmv hydrogen sulfide and <100 ppmv total reuced sulfur, or natural gas or treated refinery gas fuel with <100 ppmv total reduced sulfur.	No limit listed	BACT-PSD	
BAAQMD	96.1.3	Bay Area	CA	12/2/2024	IC Engine - Compression Ignition: Stationary Emergency, non-Agriculture, non-direct drive fire pump with a BHP Output between 50 and 1000		Fuel sulfur content not to exceed 0.0015% (wt) or 15 ppm (wt)	No limit listed	BACT-PSD	
BAAQMD	96.1.5	Bay Area	CA	12/22/2020	IC Engine - Compression Ignition: Stationary Emergency, non-Agriculture, non-direct drive fire pump with a BHP Output greater than or equal to 1000		Fuel sulfur content not to exceed 0.0015% (wt) or 15 ppm (wt)	No limit listed	BACT-PSD	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	3000 kW emergency generator	ULSD	Compliance with NSPS IIII	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	542 bhp emergency fire water pump	ULSD	Compliance with NSPS IIII	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	3000 kWe emergency generator	ULSD	Compliance with NSPS IIII	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	376 bhp emergency fire water pump	ULSD	Compliance with NSPS IIII	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	100 kW emergency generator	Propane	Compliance with NSPS JJJJ	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	150 kWe emergency generator	Propane	Compliance with NSPS JJJJ	No limit listed.	BACT	

End of table

Appendix C-3e
BACT Analysis Database Search Results: Emergency Generators, NOx
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Emergency Camp Generators	ULSD	No control listed	4.8	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Airstrip Generator Engine	ULSD	No control listed	4.8	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Agitator Generator Engine	ULSD	No control listed	5.6	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Incinerator Generator Engine	ULSD	No control listed	4.9	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Fine Water Pumps	ULSD	No control listed	3	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Bulk Tank Generator Engines	ULSD	No control listed	4.8	GRAMS/H P-H	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Black Start and Emergency Internal Combustion Engines	Diesel	Good Combustion Practices	8	G/KW-HR 3-hour average	BACT-PSD	
RBLC	AK-0084	DONLIN GOLD PROJECT	AK	06/30/2017	Fire Pump Diesel Internal Combustion Engines	Diesel	Good Combustion Practices	3.7	G/KW-HR 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	One (1) Black Start Generator Engine	ULSD	Good combustion practices, limit operation to 500 hours per year.	3.3	G/HP-HR 3-hour average	BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Three (3) Firewater Pump Engines and two (2) Emergency Diesel Generators	ULSD	Good combustion practices, limit operation to 500 hours per year per engine	3.6	G/HP-HR 3-hour average	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Diesel Fire Pump Engine	Diesel	Good Combustion Practices; Limited Operation; 40 CFR 60 Subpart IIII	3.6	G/HP-HR	BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Auxiliary Air Compressor Engine	Diesel	Good Combustion Practices; Limited Operation; 40 CFR 60 Subpart IIII	0.45	G/HP-HR	BACT-PSD	
RBLC	AL-0318	TALLADEGA SAWMILL	AL	12/18/2017	250 Hp Emergency CI, Diesel-fired RICE	Diesel	No control listed	No limit listed		N/A	
RBLC	AL-0328	PLANT BARRY	AL	11/09/2020	Diesel Emergency Engines	Diesel	No control listed	3	GR/BHP-HR nmhc + nox	BACT-PSD	
RBLC	AR-0161	SUN BIO MATERIAL COMPANY	AR	09/23/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	0.4	G/KW-H	BACT-PSD	
RBLC	AR-0163	BIG RIVER STEEL LLC	AR	06/09/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	4.86	G/KW-HR	BACT-PSD	
RBLC	AR-0177	NUCOR STEEL ARKANSAS	AR	11/21/2022	SN-230 Galvanizing Line No, 2 Emergency Generator	Diesel	No control listed	5.6	G/KW-HR	BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Generators	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	3.9	G/BHP-HR	BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Emergency Water Pumps	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	14.06	G/BHP-HR	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	1,500 kW Emergency Diesel Generator	ULSD	Operate and maintain the engine according to the manufacturer's written instructions	6.4	G/KW-HOUR	BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	Emergency Fire Pump Engine (347 HP)	ULSD	Operate and maintain the engine according to the manufacturer's written instructions	4	G/KW-HR	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	1,500 kW Emergency Diesel Generator	ULSD	No control listed	6.4	G/KW-HOUR for nmhc+nox	BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	Emergency Fire Pump Engine (347 HP)	ULSD	No control listed	4	G/KW-HOUR nmhc + nox standard	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Emergency Engines	Ultra-low sulfur diesel	No control listed	No limit listed		LAER	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Firewater Pump Engine	Ultra-low sulfur diesel	No control listed	No limit listed		LAER	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Firewater Pump Engine	Ultra-Low Sulfur Diesel	No control listed	4	G/KW-HR	LAER	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Emergency Engine	Ultra-Low Sulfur Diesel	No control listed	6.4	G/KW-HR	LAER	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Emergency Engines	Ultra-Low Sulfur Diesel	No control listed	6.4	GRAMS kilowatt-hour	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Fire Water Pump Engine	Ultra-Low Sulfur Diesel	No control listed	4	GRAMS kilowatt-hour	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Emergency Generator Engine	Diesel Fuel	No control listed	6.4	G/KW-HR 3-hr avg	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Firewater Pump Engine	Diesel Fuel	No control listed	4	G/KW-HR 3-hr avg	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	EMERGENCY GENERATORS (EU014A AND EU-014B)	DISTILLATE OIL	GOOD COMBUSTION PRACTICES	4.42	G/HP-H EACH 3 hour average	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency generator EU-6006	Diesel	Tier II diesel engine	6.4	G/KWH tier ii nox + nmhc limit	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency fire pump EU-6008	Diesel	Engine that complies with Table 4 to Subpart IIII of Part 60	4	G/KWH combined nox + nmhc limit	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	emergency generator EU 014a	distillate oil	No control listed	4.42	G/HP-HR	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN1)	diesel	certified engine	4.8	G/HP-HR	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN2)	diesel	certified engine	3	G/HP-HR	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency generator	ULSD	No control listed	4.8	G/HP-HR	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency fire pump	Diesel	No control listed	4	G/KW-HR	BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Emergency Generator (400 kW)	Diesel	Good Combustion Practices and meeting NSPS Subpart IIII requirements.	2.29	G/HP-HR	BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Emergency Generator (1000 kW)	Diesel	Good Combustion Practices and meeting NSPS Subpart IIII requirements.	3.81	G/HP-HR	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Emergency Generator (2000 kW)	Diesel	Good Combustion Practices and meeting NSPS Subpart IIII requirements.	3.81	G/HP-HR		BACT-PSD	
RBLC	IN-0371	WABASH VALLEY RESOURCES, LLC	IN	01/11/2024	Ammonia Plant Emergency Generator	Diesel	Good Combustion Practices and meeting NSPS Subpart IIII requirements.	4.8	G/HP-HR		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Black Start Emergency Generators	ultra-low sulfur diesel	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUELS	4.56	G	hp-hr	BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	plant emergency generator	ultra-low sulfur diesel	good combustion practices and low sulfur fuel	4.56	G	hp-hr	BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	emergency fire water pump	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel	2.85	G	hp-hr	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-02 - North Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	4.77	G/HP-HR	nmhc + nox	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-03 - South Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	4.77	G/HP-HR	nmhc + nox	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-04 - Emergency Fire Water Pump	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	4.77	G/HP-HR	nmhc + nox	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-01 - Melt Shop Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.98	G/HP-HR	nmhc + nox	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-02 - Reheat Furnace Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.98	G/HP-HR	nmhc + nox	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-07 - Air Separation Plant Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	4.77	G/HP-HR	nmhc + nox	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-01 - Caster Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	4.77	G/HP-HR	nmhc + nox	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-03 - Rolling Mill Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.98	G/HP-HR	nmhc + nox	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-04 - IT Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	2.98	G/HP-HR	nmhc + nox	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-05 - Radio Tower Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	3.5	G/HP-HR	nmhc + nox	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	New Pumphouse (XB13) Emergency Generator #1 (EP 08-05)	Diesel	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	No limit listed			BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Tunnel Furnace Emergency Generator (EP 08-06)	Diesel	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	No limit listed			BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Caster B Emergency Generator (EP 08-07)	Diesel	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	No limit listed			BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Air Separation Unit Emergency Generator (EP 08-08)	Diesel	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	No limit listed			BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Complex Emergency Generator (EP 09-05)	Diesel	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	No limit listed			BACT-PSD	
RBLC	LA-0292	HOLBROOK COMPRESSOR STATION	LA	01/22/2016	Emergency Generators No. 1 & No. 2	Diesel	Good equipment design, proper combustion techniques, use of low sulfur fuel, and compliance with 40 CFR 60 Subpart IIII	14.16	lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Diesel Engines (Emergency)	Diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Diesel Engines	Diesel	good combustion practices, Use ULSD, and comply with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Firewater Pump Engines	Diesel	Complying with 40 CFR 60 Subpart IIII	3	G/BHP-HR		BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Emergency Generator Engines	Diesel	Complying with 40 CFR 60 Subpart IIII	6.4	G/KW-HR		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DFP1-13 - Diesel Fire Pump Engine (EQT0013)	Diesel	Compliance with NSPS Subpart IIII	6.6	lb/hr		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DEG1-13 - Diesel Fired Emergency Generator Engine (EQT0012)	Diesel	Compliance with NSPS Subpart IIII	19.23	lb/hr		BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Generator 1	Diesel	Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel)	27.34	lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Firewater Pump 1	Diesel	Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel)	1.87	lb/hr	hourly maximum	BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	firewater pump engines (8 units)	diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	emergency generator engines (6 units)	diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	Emergency Generator Engines (4 units)	Diesel	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	No limit listed			BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	Firewater pump Engines (4 units)	diesel	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	No limit listed			BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Fire Water Diesel Pump No. 3 Engine	Diesel Fuel	Proper operation and limits on hours operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Fire Water Diesel Pump No. 4 Engine	Diesel Fuel	Proper operation and limits on hours of operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	LA-0323	MONSANTO LULING PLANT	LA	01/09/2017	Standby Generator No. 9 Engine	Diesel Fuel	Proper operation and limits on hours of operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Firewater Pump Engine (EQT0017 - EQT0020)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	5.53	G/KW-HR		BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Generator Engines (EQT0016)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	8.46	G/KW-HR		BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Firewater Pumps	Diesel Fuel	Good Combustion and Operating Practices.	3.1	G/HP-H		BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Large Emergency Engines (>50kW)	Diesel Fuel	Good Combustion and Operating Practices	5.6	G/KW-H		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Generator Diesel Engines	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed			BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Fire Water Pumps	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed			BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	PVC Emergency Combustion Equipment A	Diesel	Good combustion practices/gaseous fuel burning.	6.9	G/HP-HR		BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	PVC Emergency Combustion Equipment 2A and 2B	Diesel	Compliance with 40 CFR 60 Subpart IIII.	0.4	G/KW-HR		BACT-PSD	
RBLC	LA-0382	BIG LAKE FUELS METHANOL PLANT	LA	04/25/2019	Emergency Engines (EQT0014 - EQT0017)	Diesel	Comply with standards of 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	LA	09/03/2020	Emergency Engines (EQT0011 - EQT0016)	Diesel	Comply with 40 CFR 60 Subpart IIII	No limit listed			BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Generator Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII, good combustion practices, and use of ultra-low sulfur diesel fuel.	4.8	G/HP-HR		BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Fired Water Pump Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII, good combustion practices, and use of ultra-low sulfur diesel fuel.	3	G/HP-HR		BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	05-22 - AO-5 BDL Area PAD Sump Pump Driver	Diesel	Use of good combustion practices and compliance with NSPS Subpart IIII	1.26	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	06-22 - AO-5 Emergency Generator	Diesel	Use of good combustion practices and compliance with NSPS Subpart IIII	4.24	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	52-22 - PAO Area PAD Sump Pump Driver	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII	1.26	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	53-22 - PAO Emergency Generator	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII	4.24	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	EGEN - Plant Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	38.24	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-01 - Firewater Pump Engine No. 1	Diesel	Compliance with 40 CFR 60 Subpart IIII	3.96	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-02 - Firewater Pump Engine No. 2	Diesel	Compliance with 40 CFR 60 Subpart IIII	3.96	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-03 - Firewater Pump Engine No. 3	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	1.49	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	E. GEN 01 - Generac SD 2000	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	28.48	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	E. GEN 02 - Generac SD 2000	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	28.48	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6A - C/A Emergency Generator A	Diesel	Compliance with 40 CFR 60 Subpart IIII	18.41	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6B - C/A Emergency Generator B	Diesel	Compliance with 40 CFR 60 Subpart IIII	18.41	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6C - C/A Emergency Generator C	Diesel	Compliance with 40 CFR 60 Subpart IIII	18.41	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7A - Fire Water Pump A	Diesel	Compliance with 40 CFR 60 Subpart IIII	2.71	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7B - Fire Water Pump B	Diesel	Compliance with 40 CFR 60 Subpart IIII	2.71	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7C - Fire Water Pump C	Diesel	Compliance with 40 CFR 60 Subpart IIII	2.71	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-10 - Utility Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	15.79	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-11 - Substation Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.4	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-12 - VCM/CA/UT CCR Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	5.97	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11A - VCM Emergency Generator A	Diesel	Compliance with 40 CFR 60 Subpart IIII	18.41	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11B - VCM Emergency Generator B	Diesel	Compliance with 40 CFR 60 Subpart IIII	18.41	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11C - VCM Emergency Pump A	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.98	lb/hr		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11D - VCM Emergency Pump B	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.98	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11E - VCM Emergency Pump C	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.98	lb/hr		BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	Diesel Emergency Generator (EQT0012)	diesel	Proper equipment design and good combustion practices.☐ Use ultra-low sulfur diesel as fuel.☐ Low emission combustion.☐ Compliance with 40 CFR 60 Subpart IIII.	4.8	G/HP-HR	nmehc + nox	BACT-PSD	
RBLC	MA-0043	MIT CENTRAL UTILITY PLANT	MA	06/21/2017	Cold Start Engine	ULSD	No control listed	35.09	lb/hr	1 hr block avg	OTHER CASE-BY-CASE	
RBLC	MI-0418	WARREN TECHNICAL CENTER	MI	01/14/2015	FG-BACKUPGENS (Nine (9) DRUPS Emergency Engines)	Diesel	No add-on controls, but injection timing retardation (ITR) is good design. Engines are tuned for low-NOx operation versus low CO operation	8	G/KW-H	test protocol (limit is per engine)	BACT-PSD	
RBLC	MI-0418	WARREN TECHNICAL CENTER	MI	01/14/2015	Four (4) emergency engines in FG-BACKUPGENS	Diesel	No add-on controls, but injection timing retardation (ITR) is good design. Engines are tuned for low-NOx operation versus low CO operation	7.13	G/KW-H	test protocol (limit is per engine)	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	Certified engines, limited operating hours.	22.6	lb/hr	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0421	GRAYLING PARTICLEBOARD	MI	08/26/2016	Dieself fire pump engine (EUFIREPUMP in FGRICE)	Diesel	Certified engines, limited operating hours.	3.53	lb/hr	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUEMENGINE (Diesel fuel emergency engine)	Diesel Fuel	Good combustion practices and meeting NSPS IIII requirements.	6.4	G/KW-H	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUFPEENGINE (Emergency engine--diesel fire pump)	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	3	G/BHP-H	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMRGRICE1 in FGRICE (Emergency diesel generator engine)	Diesel	Certified engines, limited operating hours.	21.2	lb/hr	test protocol shall specifv	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUEMRGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	Certified engines, limited operating hours	4.4	lb/hr	test protocol shall specifv	BACT-PSD	
RBLC	MI-0425	GRAYLING PARTICLEBOARD	MI	05/09/2017	EUFIREPUMP in FGRICE (Diesel fire pump engine)	Diesel	Certified engines. Limited operating hours.	3.53	lb/hr	test protocol shall specifv	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUFPEENGINE (South Plant): Fire pump engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	3	G/BHP-H	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUEMENGINE (North Plant): Emergency Engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	6.4	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUFPEENGINE (North Plant): Fire pump engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	3	G/BHP-H	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUEMENGINE (South Plant): Emergency Engine	Diesel	Good combustion practices and meeting NSPS IIII requirements.	6.4	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0434	FLAT ROCK ASSEMBLY PLANT	MI	03/22/2018	EUENGINE01 through EUENGINE08	Diesel	Good combustion practices.	6.4	G/KW-H	hourly; each engine; nmhc+nox	BACT-PSD	
RBLC	MI-0434	FLAT ROCK ASSEMBLY PLANT	MI	03/22/2018	EUFIREPUMPENGs (2 emergency fire pump engines)	Diesel	Good combustion practices.	3	G/B-HP-H	hourly; each engine (nmhc+nox)	BACT-PSD	
RBLC	MI-0434	FLAT ROCK ASSEMBLY PLANT	MI	03/22/2018	EULIFESAFETYENG - One diesel-fueled emergency engine/generator	Diesel	Good combustion practices.	4	G/KW-H	hourly; nmhc+nox	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUEMENGINE: Emergency engine	Diesel	State of the art combustion design.	6.4	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFPEENGINE: Fire pump engine	Diesel	State of the art combustion design.	4	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUEMGD1--A 1500 HP diesel fueled emergency engine	Diesel	Good combustion practices and will be NSPS compliant.	6.4	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0441	LBWL--ERICKSON STATION	MI	12/21/2018	EUEMGD2--A 6000 HP diesel fuel fired emergency engine	Diesel	Good combustion practices and will be NSPS compliant.	6.4	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGEMENGINE	Diesel	No control listed	5.3	G/HP-H	hourly; each engine	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUFPEENGINE (Emergency engine--diesel fire pump	diesel fuel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	3	G/BHP-H	hourly	BACT-PSD	
RBLC	*MI-0445	INDECK NILES, LLC	MI	11/26/2019	EUEMENGINE (diesel fuel emergency engine)	diesel fuel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	6.4	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMRGRICE1 in FGRICE)	Diesel	Certified engines, limited operating hours	21.2	lb/hr	hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Emergency diesel generator engine (EUEMRGRICE2 in FGRICE)	Diesel	Certified Engines, Limited Operating Hours	4.4	lb/hr	hourly	BACT-PSD	
RBLC	MI-0448	GRAYLING PARTICLEBOARD	MI	12/18/2020	Diesel fire pump engine (EUFIREPUMP in FGRICE)	Diesel	Certified Engines, Limited Operating Hours	3.53	lb/hr	hourly	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUFPEENGINE (North Plant): Fire Pump Engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	3	G/B-HP-H	hourly	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUEMENGINE (North Plant): Emergency engine	Diesel	Good combustion practices and meeting NSPS Subpart IIII requirements.	6.4	G/KW-H	hourly	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUENGINE (South Plant): Emergency engine	Diesel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	6.4	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUPENGINE (South Plant): Fire pump engine	Diesel	Good Combustion Practices and meeting NSPS Subpart IIII requirements	3	G/B-HP-H	hourly	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUFPRICE--A 315 HP diesel-fueled emergency engine	Diesel	Good combustion practices.	3	G/HP-H	hourly	BACT-PSD	
RBLC	MI-0454	LBWL-ERICKSON STATION	MI	12/20/2022	EUEMGD	Diesel	Good combustion practices and will be NSPS compliant.	6.4	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUEMGEN	Diesel	No control listed	6.4	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUFIREPUMP	Diesel	No control listed	4	G/KW-H	hourly	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 2 (EQUI 26)	ULSD	Emergency classification, hourly restriction, and NSPS compliance	4.8	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 3 (EQUI 27)	ULSD	Emergency classification, hourly restriction, and NSPS compliance	4.8	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 4 (EQUI 28)	ULSD	Emergency classification, hourly restriction, and NSPS compliance	4.8	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 5 (EQUI 43)	ULSD	Emergency classification, hourly restriction, and NSPS compliance	4.8	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 6 (EQUI 43)	ULSD	Emergency classification, hourly restriction, and NSPS compliance	4.8	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	NE-0064	NORFOLK CRUSH, LLC	NE	11/21/2022	Emergency Fire Water Pump Engine 1	Diesel	No control listed	2.38	G/HP-HR	3-hour or test method average	BACT-PSD	
RBLC	NE-0064	NORFOLK CRUSH, LLC	NE	11/21/2022	Emergency Fire Water Pump Engine 2	Diesel	No control listed	2.38	G/HP-HR	3-hour or test method average	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Diesel Fired Emergency Generator	ULSD	use of ULSD a clean burning fuel.	42.3	lb/hr		LAER	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Emergency Diesel Fire Pump	ULSD	use of ULSD a clean burning fuel, and limited hours of operation	1.7	lb/hr		LAER	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Black start generator	ULSD	Generator equipped with selective catalytic reduction. □ Compliance demonstrated with vendor emission certification and adherence to vendor-specified maintenance recommendations.	2.11	G/BHP-H	1 h	LAER	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Emergency fire pump	ULSD	Compliance demonstrated with vendor emission certification and adherence to vendor-specified maintenance recommendations.	2.6	G/BHP-H	1 H	LAER	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	0.81	lb/hr		BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	21.6	lb/hr		BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	1.79	lb/hr		BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	27.18	lb/hr		BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Fire Pump Diesel Engine (P008)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	0.3	lb/hr		BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Generator (P009)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	5.5	lb/hr		BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	16.07	lb/hr		BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	1.97	lb/hr		BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	16.1	lb/hr		BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	1.97	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Generators (2 identical, P004 and P005)	Diesel fuel	Certified to the meet the emissions standards in 40 CFR 89.112 and 89.113 pursuant to 40 CFR 60.4205(b) and 60.4202(a)(2). □ Good combustion practices per the manufacturerâ€™s operating manual.	23.21	lb/hr	NMHC+NOX. SEE NOTES.	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Fire Pump (P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII. Good combustion practices per the manufacturerâ€™s operating manual	2.7	lb/hr	NMHC+NOX. SEE NOTES.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Generator Engine (P001)	Diesel fuel	Good combustion design	24.71	lb/hr	NMHC+NOX. SEE NOTES.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Fire Pump Engine (P002)	Diesel fuel	Good combustion design	4.97	lb/hr	NMHC+NOX. SEE NOTES.	BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Emergency diesel-fueled fire pump (P006)	Diesel fuel	Comply with NSPS 40 CFR 60 Subpart IIII	1.6	lb/hr		BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Emergency diesel-fired generator (P007)	Diesel fuel	Comply with NSPS 40 CFR 60 Subpart IIII	28.2	lb/hr		BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Diesel Generator (P003)	Diesel fuel	Good combustion practices (ULSD) and compliance with 40 CFR Part 60, Subpart IIII	19.68	lb/hr	NMHC+NOX. SEE NOTES.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Fire Pump (P004)	Diesel fuel	Good combustion practices (ULSD) and compliance with 40 CFR Part 60, Subpart IIII	2.12	lb/hr	NMHC+NOX. SEE NOTES.	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Firewater Pumps (P005 and P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII and employ good combustion practices per the manufacturerâ€™s operating manual	2.64	lb/hr	SEE NOTES.	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Emergency Diesel-fired Generator Engine (P007)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	37.41	lb/hr	SEE NOTES.	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	1,000 kW Emergency Generators (P008 - P010)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	14.96	lb/hr	SEE NOTES.	BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Black Start Generator (P007)	Diesel fuel	Tier IV engine□ Tier IV NSPS standards certified by engine manufacturer.	0.104	lb/hr		BACT-PSD	
RBLC	OH-0379	PETMIN USA INCORPORATED	OH	02/06/2019	Emergency Generators (P005 and P006)	Diesel fuel	Tier IV engine□ Tier IV NSPS standards certified by engine manufacturer.	3.45	lb/hr		BACT-PSD	
RBLC	OH-0383	PETMIN USA INCORPORATED	OH	07/17/2020	Diesel-fired emergency fire pumps (2) (P009 and P010)	Diesel fuel	Tier IV NSPS standards certified by engine manufacturer.	No limit listed			BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	5,051 bhp (3,768 kWm) Diesel-Fired Emergency Generators: P001 through P046	Diesel fuel	Certified to meet Tier 2 standards and good combustion practices	6.4	G/KW-H	6.4 GRAMS NOX + NMHC/K W-HR	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	275 hp (205 kW) Diesel-Fired Emergency Fire Pump Engine	Diesel fuel	Certified to meet the standards in Table 4 of 40 CFR Part 60, Subpart IIII and good combustion practices	4	G/KW-H	4.0 GRAMS NOX + NMHC/K W-HR	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Fire pump engine	Ultra-low sulfur diesel	No control listed	3	GM/HP-HR		LAER	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	2000 kW Emergency Generator	Ultra-low sulfur Diesel	No control listed	5.45	GM/HP-HR		LAER	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Emergency Generator Engines	ULSD	No control listed	4.8	G/BHP-HR		LAER	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Emergency Fire Pump Engine	ULSD	No control listed	3	G/BHP-HR		LAER	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fire Pump Engine	diesel	No control listed	3	G/HP-HR		LAER	
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Emergency Diesel Generator	Diesel	Minimized hours of operations Tier II engine	0.0218	G/HP HR		LAER	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	Emergency generator	DIESEL	Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101, limited to 100 hours per year of non-emergency operation	No limit listed			BACT-PSD	
RBLC	TX-0879	MOTIVA PORT ARTHUR TERMINAL	TX	02/19/2020	Emergency Firewater Engine	Ultra-low sulfur diesel	Meeting the requirements of 40 CFR Part 60, Subpart IIII. Firing ultra-low sulfur diesel fuel (no more than 15 ppm sulfur by weight). Limited to 100 hrs/yr of non-emergency operation. Have a non-resettable runtime meter.	No limit listed			BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	EMERGENCY GENERATORS & FIRE WATER PUMP ENGINES	Ultra-low Sulfur Diesel	well-designed and properly maintained engines and each limited to 100 hours per year of non-emergency use.	No limit listed			BACT-PSD	
RBLC	TX-0904	MOTIVA POLYETHYLENE MANUFACTURING COMPLEX	TX	09/09/2020	EMERGENCY GENERATOR	ULSD	100 HOURS OPERATIONS, Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101	No limit listed			BACT-PSD	
RBLC	TX-0905	DIAMOND GREEN DIESEL PORT ARTHUR FACILITY	TX	09/16/2020	EMERGENCY GENERATOR	ULSD	limited to 100 hours per year of non-emergency operation	No limit listed			BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Emergency Generators	Ultra-low sulfur diesel (no more than 15	limited to 100 hours per year of non-emergency operation. EPA Tier 2 (40 CFR Â§ 1039.101) exhaust emission standards	No limit listed			BACT-PSD	
RBLC	TX-0955	INEOS OLIGOMERS CHOCOLATE BAYOU	TX	03/14/2023	Engine Emergency Generator	DIESEL	TIER III ENGINE, OPERATIONS LIMITED TO 100 HRS/YR	3.9	G/HP HR		LAER	
RBLC	*TX-0976	CORPUS CHRISTI LIQUEFACTION STAGE 3	TX	05/30/2025	EMERGENCY GENERATOR	DIESEL	EPA Tier 2, limited to 100 hours per year of non-emergency operation. GHGs from the emergency engines will be limited through engine design and certification in accordance with standards, limited operational hours, and proper operation and maintenance	No limit listed			BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL	Good Combustion Practices/Maintenance	6.4	G/KW	PER HR	N/A	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED WATER PUMP 376 bph (1)	DIESEL FUEL	Good Combustion Practices/Maintenance	No limit listed			N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Diesel GEN	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	4.8	G/HP H		BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Fire Water Pump	ULSD	Good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	3	G/HP-HR		BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Diesel Generator - 300 kW	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	4.8	G/HP-H		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Fire Water Pump	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	3	G/HP-HR	BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. -ENERGY PLANT	WI	04/24/2018	Diesel-Fired Emergency Generators	Diesel Fuel	The Use of Ultra-Low Sulfur Fuel and Good Combustion Practices	5.36	G/KWH	BACT-PSD	
RBLC	WI-0286	SIO INTERNATIONAL WISCONSIN, INC. -ENERGY PLANT	WI	04/24/2018	P42 -Diesel Fired Emergency Generator	Diesel Fuel	Good Combustion Practices, The Use of an Engine Turbocharger and Aftercooler.	5.36	G/KWH	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Fire Pump (P06)	Diesel	Operation limited to 500 hours/year and shall be operated and maintained according to the manufacturer's recommendations.	3	G/HP-H	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Generator (P07)	Diesel	Operation limited to 500 hours/year and operate and maintain according to the manufacturer's recommendations.	4.8	G/HP-H	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Fire Pump; S06/P06 " Emergency Diesel Fire Pump	diesel	Good combustion practices and combusting clean fuels: (a) P06 may not operate more than 500 hours per each 12 rolling calendar months. (b) P06 shall be operated and maintained according to the manufacturer's recommendations. (c) NOx emissions from P06 may not	3	G/HP-HR	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Emergency Generator	diesel	Good combustion practices and combusting clean fuels	4.8	G/HP-HR	BACT-PSD	
RBLC	WV-0027	INWOOD	WV	09/15/2017	Emergency Generator - ESDG14	ULSD	Engine Design	4.77	G/HP-HR	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Emergency Generator	ULSD	Combustion Control (retarded timing and/or lean burn)	24.6	lb/hr	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Fire Water Pump	ULSD	Combustion control (retarded timing and/or lean burn)	1.59	lb/hr	BACT-PSD	
CARB/SC AQMD	516409	US GOVT, VET. AFFAIRS MED CTR	CA	12/10/2015	Diesel fuel, six cylinders, turbocharged and aftercooled. Drives an emergency electricity generator. 374 BHP.	Diesel	Diesel Particulate Filter with hiback data logging and alarm system to automatically shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	3	g/bhp-hr	BACT, LAER	Limit is for NOx + VOC
CARB/SC AQMD	516708	LA County Sheriff's Department	CA	12/10/2015	Diesel fuel, 16 cylinders, turbocharged and aftercooled emergency electricity generator. 2220 BHP.	Diesel	Diesel Particulate Filter with CRTDM diagnostic module, data logging and alarm system to auto shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	4.8	g/bhp-hr	BACT, LAER	Limit is for NOx + VOC
CARB/SC AQMD	558397	University of Southern California	CA	12/10/2015	Diesel fuel, six cylinders, turbocharged and aftercooled. Drives an emergency electricity generator. 755 BHP.	Diesel	Diesel Particulate Filter with hiback data logging and alarm system to automatically shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	4.8	g/bhp-hr	BACT, LAER	Limit is for NOx + VOC
CARB/SC AQMD	504556	SFPP.LP	CA	2/1/2019	Emergency fire pump powered by a compression ignition turbocharged internal combustion engine. 183 BHP, four cycle, lean burn, six cylinders.	Diesel	Manufacturer's certification to Tier 3 emission standards.	3	g/bhp-hr 15% O2 correction	BACT, LAER	
BAAQMD	96.1.3	Bay Area	CA	12/2/2024	IC Engine - Compression Ignition: Stationary Emergency, non-Agriculture, non-direct drive fire pump with a BHP Output between 50 and 1000		US EPA Final Tier 4 standard for NOx at applicable hp rating	No limit listed		BACT-PSD	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Four ULSD-fired emergency generators with a standby rating of approximately 1,500 kW, two ULSD-fired fire water pump engines with a continuous rating of approximately 260 kW (350 bhp), and two 500 kW emergency generators associated with support buildings.		Tier 2 and Tier 3 engines	No limit listed		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	3000 kW emergency generator	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	542 bhp emergency fire water pump	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	3000 kWe emergency generator	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	376 bhp emergency fire water pump	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	100 kW emergency generator	Propane	Compliance with NSPS JJJJ	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	150 kWe emergency generator	Propane	Compliance with NSPS JJJJ	No limit listed.		BACT	

End of table

Appendix C-3f
BACT Analysis Database Search Results: Emergency Generators, VOC
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Emergency Camp Generators	ULSD	No control listed	0.0007	LB/HP-H		BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Airstrip Generator Engine	ULSD	No control listed	0.0025	LB/HP-H		BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Agitator Generator Engine	ULSD	No control listed	0.0025	LB/HP-H		BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Incinerator Generator Engine	ULSD	No control listed	0.0025	LB/HP-H		BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Fine Water Pumps	ULSD	No control listed	0.0007	LB/HP-H		BACT-PSD	
RBLC	AK-0082	POINT THOMSON PRODUCTION FACILITY	AK	01/23/2015	Bulk Tank Generator Engines	ULSD	No control listed	0.0007	LB/HP-H		BACT-PSD	
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	One (1) Black Start Generator Engine	ULSD	Oxidation Catalyst, Good combustion practices, and limit operation to 500 hours per year.	0.18	G/HP-HR 3-hour average		BACT-PSD	0.24 g/kWh
RBLC	AK-0085	GAS TREATMENT PLANT	AK	08/13/2020	Three (3) Firewater Pump Engines and two (2) Emergency Diesel Generators	ULSD	Good combustion practices, ULSD, and limit operation to 500 hours per year.	0.19	G/HP-HR 3-hour average		BACT-PSD	
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Diesel Fire Pump Engine	Diesel	Oxidation Catalyst; Limited Operation; 40 CFR 60 Subpart IIII	0.19	G/HP-HR		BACT-PSD	0.25 g/kWh
RBLC	AK-0088	LIQUEFACTION PLANT	AK	07/07/2022	Auxiliary Air Compressor Engine	Diesel	Good Combustion Practices; Limited Operation; 40 CFR 60 Subpart IIII	0.22	G/HP-HR		BACT-PSD	
RBLC	AL-0318	TALLADEGA SAWMILL	AL	12/18/2017	250 Hp Emergency CI, Diesel-fired RICE	Diesel	No control listed	No limit listed			N/A	
RBLC	AR-0161	SUN BIO MATERIAL COMPANY	AR	09/23/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	1.9	G/KW-HR		BACT-PSD	
RBLC	AR-0163	BIG RIVER STEEL LLC	AR	06/09/2019	Emergency Engines	Diesel	Good Operating Practices, limited hours of operation, Compliance with NSPS Subpart IIII	1.55	G/KW-HR		BACT-PSD	
RBLC	AR-0177	NUCOR STEEL ARKANSAS	AR	11/21/2022	SN-230 Galvanizing Line No, 2 Emergency Generator	Diesel	No control listed	0.8	G/KW-HR		BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Emergency Generator Engine	Diesel Fuel	No control listed	6.4	G/KW-HR 3-hr avg		BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Firewater Pump Engine	Diesel Fuel	No control listed	4	G/KW-HR 3-hr avg		BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	EMERGENCY GENERATORS (EU014A AND EU-014B)	DISTILLATE OIL	GOOD COMBUSTION PRACTICES	0.35	G/HP-H EACH 3 hour average		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency generator EU-6006	Diesel	Tier II diesel engine	6.4	G/KWH tier ii nox + nmhc limit		BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Emergency fire pump EU-6008	Diesel	Engine that complies with Table 4 to Subpart IIII of Part 60	4	G/KWH combined nox + nmhc limit		BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	emergency generator EU 014a	distillate oil	No control listed	0.35	G/HP-HR		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN1)	diesel	certified engine	0.32	G/HP-HR		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	Emergency Generator (CC-GEN2)	diesel	certified engine	1.13	G/HP-HR		BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.-CAYUGA GENERATING STATION	IN	02/14/2025	Emergency Generators	Diesel	No control listed	6.4	G/KW-HR 3-hour average		BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.-CAYUGA GENERATING STATION	IN	02/14/2025	Emergency fire pump	Diesel	good combustion practices	4	G/KW-HR 3-hour average		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Black Start Emergency Generators	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel	0.24	G hp-hr		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	plant emergency generator	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel	0.24	G hp-hr		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	emergency fire water pump	ultra-low sulfur diesel	Good combustion practices, low sulfur fuel	0.15	G hp-hr		BACT-PSD	
RBLC	KY-0109	FRITZ WINTER NORTH AMERICA, LP	KY	10/24/2016	Emergency Generators #1, #2, & #3 (EU72, EU73, & EU74)	Diesel	The permittee shall prepare and maintain for EU72, EU73, and EU74, within 90 days of startup, a good combustion and operation practices plan (GCOP) that defines, measures□ and verifies the use of operational and design practices determined as BACT for minimizing CO, VOC, PM, PM10, and PM2.5 emissions. Any revisions requested by the□ Division shall be made and the plan shall be maintained on site. The permittee shall operate according to the provisions of this plan at all times, including periods of startup, shutdown, and malfunction. The plan shall be incorporated into the plant standard operating procedures (SOP) and shall be made available for the Divisionâ€™s inspection. The plan shall include, but not be limited to:□ i. A list of combustion optimization practices and a means of verifying the practices have occurred.□ ii. A list of combustion and operation practices to be used to lower energy consumption and a means of verifying the practices have occurred.□	4.77	G/HP-HR (EU72 & EU73) req. manufacturer's cert.		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-02 - North Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed			BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-03 - South Water System Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-04 - Emergency Fire Water Pump	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-01 - Melt Shop Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-02 - Reheat Furnace Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-07 - Air Separation Plant Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 10-01 - Caster Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-03 - Rolling Mill Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-04 - IT Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 11-05 - Radio Tower Emergency Generator	Diesel	This EP is required to have a Good Combustion and Operating Practices (GCOP) Plan.	No limit listed	BACT-PSD	
RBLC	LA-0276	BATON ROUGE JUNCTION FACILITY	LA	12/15/2016	Fire Pump Engines (2 units)	Diesel	Comply with standards of NSPS Subpart IIII	No limit listed	BACT-PSD	
RBLC	LA-0292	HOLBROOK COMPRESSOR STATION	LA	01/22/2016	Emergency Generators No. 1 & No. 2	Diesel	Good combustion practices consistent with the manufacturer's recommendations to maximize fuel efficiency and minimize emissions	0.83 lb/hr hourly maximum	BACT-PSD	
RBLC	LA-0307	MAGNOLIA LNG FACILITY	LA	03/21/2016	Diesel Engines	Diesel	good combustion practices, Use ULSD, and comply with 40 CFR 60 Subpart IIII	No limit listed	BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Firewater Pump Engines	Diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed	BACT-PSD	
RBLC	LA-0309	BENTELER STEEL TUBE FACILITY	LA	06/04/2015	Emergency Generator Engines	Diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed	BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DFP1-13 - Diesel Fire Pump Engine (EQT0013)	Diesel	Compliance with NNSPS Subpart IIII	0.13 lb/hr	BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	DEG1-13 - Diesel Fired Emergency Generator Engine (EQT0012)	Diesel	Compliance with NSPS Subpart IIII	0.04 lb/hr	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Generator 1	Diesel	Good combustion practices	27.34 lb/hr hourly maximum	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Emergency Diesel Firewater Pump 1	Diesel	Good combustion practices	1.87 lb/hr hourly maximum	BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	firewater pump engines (8 units)	diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed	BACT-PSD	
RBLC	LA-0316	CAMERON LNG FACILITY	LA	02/17/2017	emergency generator engines (6 units)	diesel	Complying with 40 CFR 60 Subpart IIII	No limit listed	BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Firewater Pump Engine (EQT0017 - EQT0020)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	0.4 G/KW-HR	BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Generator Engines (EQT0016)	diesel	Compliance with 40 CFR 60 Subpart IIII and operating engines per manufacturers' instructions and written procedures designed to maximize combustion efficiency and minimize fuel usage.	0.322 G/KW-HR	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Firewater Pumps	Diesel Fuel	Good combustion and operating practices.	0.44 G/HP-H	BACT-PSD	
RBLC	LA-0331	CALCASIEU PASS LNG PROJECT	LA	09/21/2018	Large Emergency Engines (>50kW)	Diesel Fuel	Good combustion and operating practices.	0.79 G/KW-H	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Generator Diesel Engines	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed	BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Emergency Fire Water Pumps	Diesel Fuel	Compliance with the limitations imposed by 40 CFR 63 Subpart IIII and operating the engine in accordance with the engine manufacturer's instructions and/or written procedures designed to maximize combustion efficiency and minimize fuel usage.	No limit listed	BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	PVC Emergency Combustion Equipment 2A and 2B	Diesel	Compliance with 40 CFR 60 Subpart IIII.	0.19 G/KW-HR	BACT-PSD	
RBLC	LA-0382	BIG LAKE FUELS METHANOL PLANT	LA	04/25/2019	Emergency Engines (EQT0014 - EQT0017)	Diesel	Comply with standards of 40 CFR 60 Subpart IIII	No limit listed	BACT-PSD	
RBLC	LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	LA	09/03/2020	Emergency Engines (EQT0011 - EQT0016)	Diesel	Comply with 40 CFR 60 Subpart IIII	No limit listed	BACT-PSD	
RBLC	LA-0388	LACC LLC US - ETHYLENE PLANT	LA	02/25/2022	Firewater Pump Engine No. 1 and 2	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.32 lb/hr	BACT-PSD	
RBLC	LA-0390	DERIDDER SAWMILL	LA	05/10/2022	ENG1 - Emergency Fire Water Pump	Diesel	Good combustion practices and maintenance and compliance with applicable 40 CFR 60 Subpart JJJJ limitation for VOC	1.85 lb/hr	BACT-PSD	
RBLC	LA-0390	DERIDDER SAWMILL	LA	05/10/2022	GEN-1 - Emergency Generator No. 1	Diesel	Good combustion practices and maintenance and compliance with applicable 40 CFR 60 Subpart JJJJ limitation for VOC	1.98 lb/hr	BACT-PSD	
RBLC	LA-0390	DERIDDER SAWMILL	LA	05/10/2022	GEN-2 - Emergency Generator No. 2	Diesel	Good combustion practices and maintenance and compliance with applicable 40 CFR 60 Subpart JJJJ limitation for VOC	1.98 lb/hr	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Generator Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII standards, good combustion practices, and the use of ultra-low sulfur diesel fuel	4.8	G/HP-HR		BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Emergency Diesel Fired Water Pump Engine	Diesel	Compliance with 40 CFR 60 Subpart IIII, good combustion practices, and the use of ultra-low sulfur diesel fuel.	3	G/HP-HR		BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	05-22 - AO-5 BDL Area PAD Sump Pump Driver	Diesel	Use of good combustion practices and compliance with NSPS Subpart IIII	0.03	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	06-22 - AO-5 Emergency Generator	Diesel	Use of good combustion practices and compliance with NSPS Subpart IIII	0.11	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	52-22 - PAO Area PAD Sump Pump Driver	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII	0.03	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	53-22 - PAO Emergency Generator	Diesel	Use of good combustion practices, compliance with NSPS Subpart IIII	0.11	lb/hr	hourly maximum	BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	EGEN - Plant Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	2.29	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-01 - Firewater Pump Engine No. 1	Diesel	Compliance with 40 CFR 60 Subpart IIII	1.47	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-02 - Firewater Pump Engine No. 2	Diesel	Compliance with 40 CFR 60 Subpart IIII	1.47	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	FWP-03 - Firewater Pump Engine No. 3	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	0.61	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	E. GEN 01 - Generac SD 2000	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	2.06	lb/hr		BACT-PSD	
RBLC	*LA-0401	KOCH METHANOL (KME) FACILITY	LA	12/20/2023	E. GEN 02 - Generac SD 2000	Diesel	Compliance with the requirements of 40 CFR 60 Subpart IIII	2.06	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6A - C/A Emergency Generator A	Diesel	Compliance with 40 CFR 60 Subpart IIII	6.27	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6B - C/A Emergency Generator B	Diesel	Compliance with 40 CFR 60 Subpart IIII	6.27	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-6C - C/A Emergency Generator C	Diesel	Compliance with 40 CFR 60 Subpart IIII	6.27	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7A - Fire Water Pump A	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.92	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7B - Fire Water Pump B	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.92	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-7C - Fire Water Pump C	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.92	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-10 - Utility Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	5.38	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-11 - Substation Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.14	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4U-12 - VCM/CA/UT CCR Emergency Generator	Diesel	Compliance with 40 CFR 60 Subpart IIII	2.03	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11A - VCM Emergency Generator A	Diesel	Compliance with 40 CFR 60 Subpart IIII	6.27	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11B - VCM Emergency Generator B	Diesel	Compliance with 40 CFR 60 Subpart IIII	6.27	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11C - VCM Emergency Pump A	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.33	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11D - VCM Emergency Pump B	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.33	lb/hr		BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-11E - VCM Emergency Pump C	Diesel	Compliance with 40 CFR 60 Subpart IIII	0.33	lb/hr		BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	Diesel Emergency Generator (EQT0012)	diesel	Proper equipment design and good combustion practices. □ Use ultra-low sulfur diesel as fuel. □ Compliance with 40 CFR 60 Subpart IIII.	4.8	G/HP-HR	nmehc + nox	BACT-PSD	
RBLC	MA-0043	MIT CENTRAL UTILITY PLANT	MA	06/21/2017	Cold Start Engine	ULSD	No control listed	0.85	lb/hr		OTHER CASE-BY-CASE	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUENGINE (Diesel fuel emergency engine)	Diesel Fuel	Good combustion practices.	1.87	lb/hr	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0423	INDECK NILES, LLC	MI	01/04/2017	EUFENGINE (Emergency engine--diesel fire pump)	Diesel	Good combustion practices	0.64	lb/hr	test protocol will specify avg time	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUFENGINE (South Plant): Fire pump engine	Diesel	Good combustion practices.	0.75	lb/hr	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (North Plant): Emergency Engine	Diesel	Good combustion practices.	0.86	lb/hr	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUFENGINE (North Plant): Fire pump engine	Diesel	Good combustion practices	0.75	lb/hr	hourly	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUENGINE (South Plant): Emergency Engine	Diesel	Good combustion practices	0.86	lb/hr	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUENGINE: Emergency engine	Diesel	State of the art combustion design.	1.89	lb/hr	hourly	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUFENGINE: Fire pump engine	Diesel	State of the art combustion design.	0.13	lb/hr	hourly	BACT-PSD	
RBLC	MI-0442	THOMAS TOWNSHIP ENERGY, LLC	MI	08/21/2019	FGENGINE	Diesel	No control listed	0.86	lb/hr	hourly; each engine	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUFENGINE (North Plant): Fire Pump Engine	Diesel	Good combustion practices.	0.75	lb/hr	hourly	BACT-PSD	
RBLC	MI-0451	MEC NORTH, LLC	MI	06/23/2022	EUENGINE (North Plant): Emergency engine	Diesel	Good combustion practices	0.86	lb/hr	hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUENGINE (South Plant): Emergency engine	Diesel	Good combustion practices.	0.86	lb/hr	hourly	BACT-PSD	
RBLC	MI-0452	MEC SOUTH, LLC	MI	06/23/2022	EUFENGINE (South Plant): Fire pump engine	Diesel	Good Combustion Practices	0.75	lb/hr	hourly	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUEMGEN	Diesel	Good combustion practices	6.4	G/KW-H	hourly	BACT-PSD	
RBLC	MI-0459	LANSING BOARD OF WATER AND LIGHT--DELTA ENERGY PARK	MI	06/27/2024	EUFIREPUMP	Diesel	Good combustion practices	4	G/KW-H	hourly	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 2 (EQUI 26)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	4.8	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 3 (EQUI 27)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	4.8	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 4 (EQUI 28)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	4.8	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 5 (EQUI 43)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	4.8	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	MN-0095	BLUE LAKE	MN	08/07/2024	Emergency Generator 6 (EQUI 43)	ULSD	Emergency classification, hourly restriction, good combustion practices, and NSPS compliance	4.8	G/HP-HR	24 hour rolling average	BACT-PSD	
RBLC	NE-0064	NORFOLK CRUSH, LLC	NE	11/21/2022	Emergency Fire Water Pump Engine 1	Diesel	No control listed	0.62	G/HP-HR	3-hour or test method average	BACT-PSD	
RBLC	NE-0064	NORFOLK CRUSH, LLC	NE	11/21/2022	Emergency Fire Water Pump Engine 2	Diesel	No control listed	0.62	G/HP-HR	3-hour or test method average	BACT-PSD	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Diesel Fired Emergency Generator	ULSD	use of ULSD a clean burning fuel, and limited hours of operation	1	lb/hr		LAER	
RBLC	NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	NJ	03/10/2016	Emergency Diesel Fire Pump	ULSD	use of ULSD a clean burning fuel, and limited hours of operation	0.1	lb/hr		LAER	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Black start generator	ULSD	Compliance demonstrated with vendor emission certification and adherence to vendor-specified maintenance recommendations	0.11	G/BHP-H	1 h	LAER	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Emergency fire pump	ULSD	Compliance demonstrated with vendor emission certification and adherence to vendor-specified maintenance recommendations	0.1	G/BHP-H	1 h	LAER	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	0.11	lb/hr		BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency generator (P003)	Diesel fuel	No control listed	3.1	lb/hr		BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	0.25	lb/hr		BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	3.84	lb/hr		BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Fire Pump Diesel Engine (P008)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	0.14	lb/hr		BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Emergency Generator (P009)	Diesel fuel	good combustion control and operating practices and engines designed to meet the stands of 40 CFR Part 60, Subpart IIII	1.6	lb/hr		BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	2	lb/hr		BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	0.24	lb/hr		BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency generator (P003)	Diesel fuel	State-of-the-art combustion design	2	lb/hr		BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency fire pump engine (P004)	Diesel fuel	State-of-the-art combustion design	0.24	lb/hr		BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Generators (2 identical, P004 and P005)	Diesel fuel	Certified to the meet the emissions standards in 40 CFR 89.112 and 89.113 pursuant to 40 CFR 60.4205(b) and 60.4202(a)(2). □ Good combustion practices per the manufacturerâ€™s operating manual.	23.21	lb/hr	nmhc+nox. see notes.	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Fire Pump (P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII. Good combustion practices per the manufacturerâ€™s operating manual.	2.7	lb/hr	nmhc+nox. see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Generator Engine (P001)	Diesel fuel	Good combustion design	24.71	lb/hr	nmhc+nox. see notes.	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Fire Pump Engine (P002)	Diesel fuel	Good combustion design	4.97	lb/hr	nmhc+nox. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Diesel Generator (P003)	Diesel fuel	Good combustion practices (ULSD) and compliance with 40 CFR Part 60, Subpart IIII	19.68	lb/hr	nmhc+nox. see notes.	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Fire Pump (P004)	Diesel fuel	Good combustion practices (ULSD) and compliance with 40 CFR Part 60, Subpart IIII	2.12	lb/hr	nmhc+nox. see notes.	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Firewater Pumps (P005 and P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII and employ good combustion practices per the manufacturerâ€™s operating manual	2.64	lb/hr	see notes.	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Emergency Diesel-fired Generator Engine (P007)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	37.41	lb/hr	see notes.	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	1,000 kW Emergency Generators (P008 P010)	Diesel fuel	certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII, shall employ good combustion practices per the manufacturerâ€™s operating manual	14.96	lb/hr	see notes.	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	5,051 bhp (3,768 kWm) Diesel-Fired Emergency Generators: P001 through P046	Diesel fuel	Certified to meet Tier 2 standards and good combustion practices	0.4	G/KW-H		BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	275 hp (205 kW) Diesel-Fired Emergency Fire Pump Engine	Diesel fuel	Certified to meet the standards in Table 4 of 40 CFR Part 60, Subpart IIII and good combustion practices	0.7	lb/hr		BACT-PSD	
RBLC	OK-0164	MIDWEST CITY AIR DEPOT	OK	01/08/2015	Diesel-Fueled Fire Pump Engines	Ultra-Low Sulfur Distillate Fuel	1. Good Combustion Practices.	0.15	GRAMS PER HP-HR	total for 3 engines.	BACT-PSD	
RBLC	OK-0175	WILDHORSE TERMINAL	OK	06/29/2017	Emergency Use Engines > 500 HP	Diesel	Good combustion practices. Certified to meet EPA Tier 3 engine standards. Shall be limited to operate at no more than 500 hr/yr.	3	GM/HP-HR		BACT-PSD	
RBLC	OK-0175	WILDHORSE TERMINAL	OK	06/29/2017	Emergency Use Engine less than or equal to 500 HP	Diesel	Good combustion practices, certified to meet EPA Tier 3 engine standards. Gen-1, FP-1, and FP-2 shall be limited to operate no more than 500 hr/yr	3	GM/HP-HR		BACT-PSD	
RBLC	OK-0181	WILDHORSE TERMINAL	OK	09/11/2019	EMERGENCY USE ENGINES > 500 HP	DIESEL	Good combustion practices. Certified to meet EPA Tier 3 engine standards. Each engine shall be limited to operate not more than 500 hours per year	3	GM/HP-HR		BACT-PSD	
RBLC	OK-0181	WILDHORSE TERMINAL	OK	09/11/2019	EMERGENCY USE ENGINES < 500 HP	DIESEL	Good Combustion Practices. Certified to meet EPA Tier 3 engine standards. Gen-1 and FP-1 shall be limited to operate not more than 500 hours per year. SP-1 shall be limited to operate not more than 876 hours per year	3	GM/HP-HR		BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Fire pump engine	Ultra-low sulfur diesel	No control listed	0.12	GM/HP-HR		LAER	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	2000 kW Emergency Generator	Ultra-low sulfur Diesel	No control listed	0.22	GM/HP-HR		LAER	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fire Pump Engine	diesel	No control listed	0.2	G/HP-HR		LAER	
RBLC	*PA-0313	FIRST QUALITY TISSUE LOCK HAVEN PLT	PA	07/27/2017	Emergency Generator	Diesel	No control listed	3.5	G	kw-hr		
RBLC	SC-0193	MERCEDES BENZ VANS, LLC	SC	04/15/2016	Emergency Generators and Fire Pump	No. 2 Fuel Oil	Must meet the standards of 40 CFR 60, Subpart IIII	100	HR/YR	12 month rolling sum	BACT-PSD	
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Emergency Diesel Generator	Diesel	Minimized hours of operations Tier II engine	0.7	lb/hr		OTHER CASE-BY-CASE	
RBLC	TX-0799	BEAUMONT TERMINAL	TX	06/08/2016	Fire pump engines	diesel	Equipment specifications and good combustion practices. Operation limited to 100 hours per year.	0.0007	LB/HP-HR		BACT-PSD	
RBLC	TX-0799	BEAUMONT TERMINAL	TX	06/08/2016	EMERGENCY ENGINES	diesel	Equipment specifications and good combustion practices. Operation limited to 100 hours per year.	0.0025	LB/HP-HR		BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Emergency Generators	ULSD	Limiting duration and frequency of generator use to 100 hr/yr. Good combustion practices will be used to reduce VOC including maintaining proper air-to-fuel ratio.	0.12	G/KW HR		BACT-PSD	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	Emergency generator	DIESEL	Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101, limited to 100 hours per year of non-emergency operation	No limit listed			BACT-PSD	
RBLC	TX-0879	MOTIVA PORT ARTHUR TERMINAL	TX	02/19/2020	Emergency Firewater Engine	Ultra-low sulfur diesel	Meeting the requirements of 40 CFR Part 60, Subpart IIII. Firing ultra-low sulfur diesel fuel (no more than 15 ppm sulfur by weight). Limited to 100 hrs/yr of non-emergency operation. Have a non-resettable runtime meter	0.1	G/HP HR		BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	EMERGENCY GENERATORS & FIRE WATER PUMP ENGINES	Ultra-low Sulfur Diesel	well-designed and properly maintained engines and each limited to 100 hours per year of non-emergency use	No limit listed			BACT-PSD	
RBLC	TX-0904	MOTIVA POLYETHYLENE MANUFACTURING COMPLEX	TX	09/09/2020	EMERGENCY GENERATOR	ULSD	100 HOURS OPERATIONS, Tier 4 exhaust emission standards specified in 40 CFR Â§ 1039.101	No limit listed			BACT-PSD	
RBLC	TX-0905	DIAMOND GREEN DIESEL PORT ARTHUR FACILITY	TX	09/16/2020	EMERGENCY GENERATOR	ULSD	limited to 100 hours per year of non-emergency operation	No limit listed			BACT-PSD	
RBLC	TX-0915	UNIT 5	TX	03/17/2021	DIESEL GENERATOR	DIESEL	LIMITED 500 HR/YR OPERATION	0.5	G/HPHR		BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Emergency Generators	Ultra-low sulfur diesel (no more than 15	limited to 100 hours per year of non-emergency operation. EPA Tier 2 (40 CFR Â§ 1039.101) exhaust emission standards	No limit listed			BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	EMERGENCY GENERATOR	DIESEL	GOOD COMBUSTION PRACTICES, LIMITED TO 100 HR/YR	0.001	LB/HP HR		BACT-PSD	
RBLC	TX-0955	INEOS OLIGOMERS CHOCOLATE BAYOU	TX	03/14/2023	Engine Emergency Generator	DIESEL	TIER IIII	No limit listed			LAER	
RBLC	*TX-0976	CORPUS CHRISTI LIQUEFACTION STAGE 3	TX	05/30/2025	EMERGENCY GENERATOR	DIESEL	EPA Tier 2, limited to 100 hours per year of non-emergency operation. GHGs from the emergency engines will be limited through engine design and certification in accordance with standards, limited operational hours, and proper operation and maintenance	No limit listed			BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL	Good Combustion Practices/Maintenance	6.4	G/KW	PER HR	N/A	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED WATER PUMP 376 bph (1)	DIESEL FUEL	Good Combustion Practices/Maintenance	3	G/HP-H PER HR	N/A	
RBLC	VA-0327	PERDUE GRAIN AND OILSEED, LLC	VA	07/12/2017	Emergency Generator	Diesel	No control listed	0.49	lb/hr	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Fire Water Pump	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	No limit listed		BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Fire Water Pump	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	0.11	G/HP-HR	BACT-PSD	
RBLC	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. -ENERGY PLANT	WI	04/24/2018	Diesel-Fired Emergency Generators	Diesel Fuel	Good Combustion Practices	0.56	G/KWH	BACT-PSD	
RBLC	WI-0286	SIO INTERNATIONAL WISCONSIN, INC. -ENERGY PLANT	WI	04/24/2018	P42 -Diesel Fired Emergency Generator	Diesel Fuel	Good Combustion Practices	0.56	G/KWH	BACT-PSD	
RBLC	WI-0297	GREEN BAY PACKAGING- MILL DIVISION	WI	12/10/2019	Diesel-Fired Emergency Fire Pump (P36)	Diesel	No control listed	200	H/Y IN ANY CONSECUTIVE 12-MONTH PERIOD	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Fire Pump (P06)	Diesel	Operation limited to 500 hours/year and operate and maintain according to the manufacturer's recommendations.	1.1	G/HP-H	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Generator (P07)	Diesel	Operation limited to 500 hours/year and operate and maintain generator according to the manufacturer's recommendations	0.32	G/HP-H	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Fire Pump; S06/P06 - Emergency Diesel Fire Pump	diesel	Good combustion practices: (a) P06 may not operate more than 500 hours per each 12 rolling calendar months. (b) P06 shall be operated and maintained according to the manufacturer's recommendations. (c) VOC emission from P06 may not	1.1	G/HP-HR	BACT-PSD	
RBLC	*WI-0326	NEMADJI TRAIL ENERGY CENTER	WI	09/19/2023	Emergency Generator	diesel	Good combustion practices include operational and design elements.	0.32	G/HP-HR	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Emergency Generator	ULSD	Good Combustion Practices w/ OxCat. Applicant did not justify why an oxcat is infeasible for an emergency engine	0.46	lb/hr	BACT-PSD	
RBLC	*WV-0033	MAIDSVILLE	WV	01/05/2022	Fire Water Pump	ULSD	Good Combustion Practices w/ OxCat. Applicant did not justify why an oxcat is infeasible for an emergency engine	1.59	lb/hr	BACT-PSD	
CARB/SC AQMD	516409	US GOVT. VET. AFFAIRS MED CTR	CA	12/10/2015	Diesel fuel, six cylinders, turbocharged and aftercooled. Drives an emergency electricity generator. 374 BHP.	Diesel	Diesel Particulate Filter with hiback data logging and alarm system to automatically shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	3	g/bhp-hr	BACT, LAER	Limit is for NOx + VOC
CARB/SC AQMD	516708	LA County Sheriff's Department	CA	12/10/2015	Diesel fuel, 16 cylinders, turbocharged and aftercooled emergency electricity generator. 2220 BHP.	Diesel	Diesel Particulate Filter with CRTDM diagnostic module, data logging and alarm system to auto shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	4.8	g/bhp-hr	BACT, LAER	Limit is for NOx + VOC
CARB/SC AQMD	558397	University of Southern California	CA	12/10/2015	Diesel fuel, six cylinders, turbocharged and aftercooled. Drives an emergency electricity generator. 755 BHP.	Diesel	Diesel Particulate Filter with hiback data logging and alarm system to automatically shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	4.8	g/bhp-hr	BACT, LAER	Limit is for NOx + VOC
CARB/SC AQMD	504556	SFPP.LP	CA	2/1/2019	Emergency fire pump powered by a compression ignition turbocharged internal combustion engine. 183 BHP, four cycle, lean burn, six cylinders.	Diesel	Manufacturer's certification to Tier 3 emission standards.	3	g/bhp-hr 15% O2 correction	BACT, LAER	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Four ULSD-fired emergency generators with a standby rating of approximately 1,500 kW, two ULSD-fired fire water pump engines with a continuous rating of approximately 260 kW (350 bhp), and two 500 kW emergency generators associated with support buildings.		Tier 2 and Tier 3 engines	No limit listed		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	3000 kW emergency generator	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	542 bhp emergency fire water pump	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	3000 kW emergency generator	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	376 bhp emergency fire water pump	ULSD	Compliance with NSPS IIII	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	100 kW emergency generator	Propane	Compliance with NSPS JJJJ	No limit listed.		BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	150 kW emergency generator	Propane	Compliance with NSPS JJJJ	No limit listed.		BACT	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
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Appendix C-3g
BACT Analysis Database Search Results: Emergency Generators, Sulfuric Acid Mist
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Emergency Engines	Ultra-Low Sulfur Diesel	Use of ultra-low sulfur diesel, with a sulfur content < 15 ppm sulfur.	No limit listed	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Fire Water Pump Engine	Ultra-Low Sulfur Diesel	Use of ultra-low sulfur diesel, with a sulfur content < 15 ppm sulfur.	No limit listed	BACT-PSD	
RBLC	*IN-0365	MAPLE CREEK ENERGY LLC	IN	06/19/2023	Emergency fire pump	Diesel	No control listed	0.0002 LB PER MMBTU	BACT-PSD	
RBLC	MA-0043	MIT CENTRAL UTILITY PLANT	MA	06/21/2017	Cold Start Engine	ULSD	No control listed	0.022 lb/hr	OTHER CASE-BY-CASE	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUENGINE: Emergency engine	Diesel	Good combustion practices, low sulfur fuel.	15 PPM fuel supplier records or test data	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUPENGINE: Fire pump engine	Diesel	Good combustion practices, low sulfur fuel.	15 PPM fuel supplier records or test data	BACT-PSD	
RBLC	NY-0103	CRICKET VALLEY ENERGY CENTER	NY	02/03/2016	Emergency fire pump	ULSD	ULSD with maximum sulfur content 0.0015 percent.	0.0001 lb/MMBtu 1 h	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency fire pump engine (P004)	Diesel fuel	Low sulfur fuel	3 X10-5 LB/H	BACT-PSD	
RBLC	OH-0366	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	OH	08/25/2015	Emergency generator (P003)	Diesel fuel	Low sulfur fuel	5.1 X10-4 LB/H	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency fire pump engine (P004)	Diesel fuel	ULSD fuel	6.7 X10-5 LB/H	BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Emergency generator (P003)	Diesel fuel	ULSD fuel	6.4 X10-4 LB/H	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency generator (P003)	Diesel fuel	ULSD fuel	3.3 X10-4 LB/H	BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Emergency fire pump engine (P004)	Diesel fuel	ULSD fuel	6.5 X10-5 LB/H	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency generator (P003)	Diesel fuel	ULSD fuel	3.3 X10-4 LB/H	BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Emergency fire pump engine (P004)	Diesel fuel	ULSD fuel	6.5 X10-5 LB/H	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Generators (2 identical, P004 and P005)	Diesel fuel	ultra-low sulfur diesel (ULSD) fuel with a sulfur content of less than 15 ppm (0.0015 percent by weight)	3.4 X10-3 LB/H	BACT-PSD	
RBLC	OH-0374	GUERNSEY POWER STATION LLC	OH	10/23/2017	Emergency Fire Pump (P006)	Diesel fuel	Certified to the meet the emissions standards in Table 4 of 40 CFR Part 60, Subpart IIII. Good combustion practices per the manufacturer's operating manual.	0.0015 lb/MMBtu	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Generator Engine (P001)	Diesel fuel	Low sulfur fuel	0.0016 lb/hr	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Emergency Diesel Fire Pump Engine (P002)	Diesel fuel	Low sulfur fuel	5.4 X10-4 LB/H	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Diesel Generator (P003)	Diesel fuel	ultra-low sulfur diesel (ULSD) fuel with a sulfur content of less than 15 ppm (0.0015 percent by weight)	7.3 X10-4 lb/MMBtu	BACT-PSD	
RBLC	OH-0377	HARRISON POWER	OH	04/19/2018	Emergency Fire Pump (P004)	Diesel fuel	ultra-low sulfur diesel (ULSD) fuel with a sulfur content of less than 15 ppm (0.0015 percent by weight)	7.3 X10-4 lb/MMBtu	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Fire pump engine	Ultra-low sulfur diesel	No control listed	0.0006 G/HP-HR	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	2000 kW Emergency Generator	Ultra-low sulfur Diesel	No control listed	0.0007 GM/HP-HR	BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL	ULSD/Fuel (15 ppm max)	0.0001 lb/MMBtu	N/A	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	DIESEL-FIRED WATER PUMP 376 bph (1)	DIESEL FUEL	ULSD/Fuel (15 ppm max)	0.0001 lb/MMBtu	N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Diesel GEN	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	No limit listed	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Emergency Fire Water Pump	ULSD	good combustion practices and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw.	No limit listed	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Diesel Generator - 300 kW	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw	0.0001 lb/MMBtu	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Emergency Fire Water Pump	ULSD	good combustion practices, high efficiency design, and the use of ULSD (S15 ULSD) fuel oil with a maximum sulfur content of 15 ppmw	0.0001 lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Fire Pump (P06)	Diesel	Operation limited to 500 hours/year, operate and maintain according to the manufacturer's recommendations, and sulfur content of the diesel fuel oil fired may not exceed 15 ppm.	No limit listed	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Emergency Diesel Generator (P07)	Diesel	Operation limited to 500 hours/year, sulfur content of the diesel fuel oil fired may not exceed 15 ppm, and permittee shall operate and maintain generator according to the manufacturer's recommendations.	No limit listed	BACT-PSD	
CARB/SC AQMD	516409	US GOVT, VET. AFFAIRS MED CTR	CA	12/10/2015	Diesel fuel, six cylinders, turbocharged and aftercooled. Drives an emergency electricity generator. 374 BHP.	Diesel	Diesel Particulate Filter with hiback data logging and alarm system to automatically shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	No limit listed	LAER	BACT Limits: NOx + VOC: 3 g/bhp-hr; CO: 2.6 g/bhp-hr; PM or PM10: 0.15 g/bhp-hr
CARB/SC AQMD	516708	LA County Sheriff's Department	CA	12/10/2015	Diesel fuel, 16 cylinders, turbocharged and aftercooled emergency electricity generator. 2220 BHP.	Diesel	Diesel Particulate Filter with CRTDM diagnostic module, data logging and alarm system to auto shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	No limit listed	LAER	BACT Limits: NOx + VOC: 4.8 g/bhp-hr; CO: 2.6 g/bhp-hr; PM or PM10: 0.15 g/bhp-hr
CARB/SC AQMD	558397	University of Southern California	CA	12/10/2015	Diesel fuel, six cylinders, turbocharged and aftercooled. Drives an emergency electricity generator. 755 BHP.	Diesel	Diesel Particulate Filter with hiback data logging and alarm system to automatically shut down engine or switch it to power de-rating when backpressure exceeds setting specified by manufacturer. CARB certified.	No limit listed	LAER	BACT Limits: NOx + VOC: 4.8 g/bhp-hr; CO: 2.6 g/bhp-hr; PM or PM10: 0.01 g/bhp-hr
CARB/SC AQMD	504556	SFPP.LP	CA	2/1/2019	Emergency fire pump powered by a compression ignition turbocharged internal combustion engine. 183 BHP, four cycle, lean burn, six cylinders.	Diesel	Manufacturer's certification to Tier 3 emission standards.	No limit listed 15% O2 correction	LAER	BACT Limits: NOx: 3.0 g/bhp-hr; CO: 2.6 g/bhp-hr; PM or PM10: 0.15 g/bhp-hr
BAAQMD	17.3.1	Bay Area	CA	8/4/2010	Boilers with greater than or equal to 50 MMBtu/hr heat input.		SO2: Natural gas or treated refinery gas fuel with <0.50 ppmv hydrogen sulfide and <100 ppmv total reduced sulfur, or natural gas or treated refinery gas fuel with <100 ppmv total reduced sulfur. PM10: Natural gas or treated refinery gas fuel	No limit listed		
BAAQMD	96.1.3	Bay Area	CA	12/2/2024	IC Engine - Compression Ignition: Stationary Emergency, non-Agriculture, non-direct drive fire pump with a BHP Output between 50 and 1000		NOx: US EPA Final Tier 4 standard for NOx at applicable hp rating SO2: Fuel sulfur content not to exceed 0.0015% (wt) or 15 ppm (wt) CO: US EPA Final Tier 4 standard for CO at applicable hp rating PM10 & PM2.5: US EPA Final tier 4 standard for PM at applicable hp rating	No limit listed		
BAAQMD	96.1.5	Bay Area	CA	12/22/2020	IC Engine - Compression Ignition: Stationary Emergency, non-Agriculture, non-direct drive fire pump with a BHP Output greater than or equal to 1000		NOx: 0.5 g/bhp-hr SO2: Fuel sulfur content not to exceed 0.0015% (wt) or 15 ppm (wt) CO: 2.6 g/bhp-hr PM10: 0.02 g/bhp-hr	No limit listed		

End of table

Appendix C-4a
BACT Analysis Database Search Results: Fugitives from Piping Components, VOC
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	FL-0368	NUCOR STEEL FLORIDA FACILITY	FL	02/14/2019	Meltshop Baghouse & Fugitives	N/A	Good combustion practice and process control along with a scrap management plan	0.3 LB/TON OF STEEL	3-hour avg	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Block 2000 fugitive emissions	N/A	leak detection and repair (LDAR) program	151.18 TONS	12 consecutive months	RACT	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Block 4000 fugitive emissions	N/A	Leak detection and repair (LDAR) program	25.04 TONS	12 consecutive months	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	Fugitive emissions from equipment leaks F-1	N/A	No control listed	No limit listed		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	WWTF-13 - Wastewater Treatment Fugitives (FUG0001)	N/A	Compliance with NESHAP Subpart F and NESHAP Subpart G. LDAR Monitoring.	0.29 lb/hr		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	PF-13 - Process Fugitives (FUG0002)	N/A	Compliance with NESHAP Subpart H. LDAR Monitoring.	No limit listed		BACT-PSD	
RBLC	LA-0324	COMMONWEALTH LNG FACILITY	LA	03/28/2023	Fugitive Emissions (FUG0001)	N/A	Appropriate component selection, design, and installation;□ Utilizing proper piping design;□ Compliance with LAC 33:III.2111; and□ LDAR.	No limit listed		BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	44-22 - AO-5 Fugitive Emissions	N/A	Implementation of an LDAR program is the most effective strategy for control of fugitive VOC emissions	No limit listed		BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	54-22 - PAO Fugitive Emissions	N/A	Implementation of an LDAR program for components in accordance with the requirements of 40 CFR 63 Subpart H	No limit listed		BACT-PSD	
RBLC	OK-0175	WILDHORSE TERMINAL	OK	06/29/2017	Fugitive Emission Sources	N/A	No control listed	No limit listed		BACT-PSD	
RBLC	OK-0176	BPV GATHERING AND MARKETING CUSHING STATION	OK	07/19/2017	FUGITIVE EQUIPMENT LEAKS	N/A	Conduct and record AVO observations.	217.24 TONS/YEAR/ FACILITY		BACT-PSD	
RBLC	OK-0177	CUSHING SOUTH TANK FARM	OK	01/04/2018	Fugitive emission source	N/A	Prepare, implement, and maintain SPCC plan. Records of quarterly inspections, identified leaks, and corrective actions shall be maintained.	No limit listed		BACT-PSD	
RBLC	OK-0180	CUSHING TERMINAL	OK	08/27/2019	FUGITIVE EQUIPMENT LEAKS	N/A	Conduct and record AVO observations. Prepare, implement, and maintain SPCC plan. Records of inspections, identified leaks, and corrective actions.	No limit listed		BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Pickle Line Equipment (pickle line no. 3 fugitives)	N/A	Proper Operation and Maintenance	No limit listed		BACT-PSD	
RBLC	TX-0755	RAMSEY GAS PLANT	TX	05/21/2015	Fugitive Components	N/A	40 CFR Part 60, Subpart OOOO requirements and TCEQs 28 M Fugitive Monitoring requirements will be used to control fugitive emissions from each Ramsey Gas Plant.	500 PPMV	valves	BACT-PSD	
RBLC	TX-0774	BISHOP FACILITY	TX	11/12/2015	Fugitives	N/A	28VHP fugitive monitoring program	4.61 TPY		BACT-PSD	
RBLC	TX-0783	LBC HOUSTON BAYPORT TERMINAL	TX	02/05/2016	Fugitives	N/A	An enhanced leak detection and repair program (28LAER) that requires quarterly instrumental monitoring of all fugitive components (pumps, compressors, valves, connectors, seals, etc.) with directed maintenance.	500 PPMV		LAER	
RBLC	TX-0855	BUCKEYE SOUTH TEXAS GATEWAY TERMINAL	TX	03/13/2019	Fugitives	N/A	28 VHP, 28PI LDAR	No limit listed		BACT-PSD	
RBLC	TX-0858	GULF COAST GROWTH VENTURES PROJECT	TX	06/12/2019	Fugitive Components	N/A	TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs for piping components in VOC service	No limit listed		BACT-PSD	
RBLC	TX-0863	POLYETHYLENE 7 FACILITY	TX	09/03/2019	FUGITIVES	N/A	28 MID	No limit listed		LAER	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	FUGITIVES	N/A	TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs	500 PPMV		BACT-PSD	
RBLC	TX-0894	CHEVRON PHILLIPS CHEMICAL SWEENY COMPLEX	TX	10/30/2020	Unit 81 Fugitives (EPN FUG-02)	N/A	Piping components at the Sweeny site are currently monitored under the stringent 28LAER LDAR program. The proposed piping components in this amendment will be monitored using the 28LAER program. Valves in heavy liquid service will use the language in the 28LAER LDAR program that requires AVO inspection.	No limit listed		LAER	
RBLC	TX-0899	LBC HOUSTON BAYPORT TERMINAL	TX	03/05/2021	FUGITIVES	N/A	Fugitive components will be monitored under the 28LAER program. This control meets LAER	No limit listed		LAER	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	Fugitives	N/A	weekly AVO	No limit listed		BACT-PSD	
RBLC	TX-0918	CEDAR BAYOU PLANT	TX	03/05/2021	FUGITIVE COMPONENTS	N/A	28LAER	No limit listed		LAER	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Electrical Equipment Fugitive Leaks	N/A	The manufacturerâ€™s recommendations for maintenance, repair, and recycling of SF6 recovered during maintenance will be followed. Pressure in breakers and switches will be monitored, and repair when pressure drops 10% below initial pressure will be initiated.	No limit listed		BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Piping component leaks (EPN FUG)	N/A	TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs	No limit listed		BACT-PSD	
RBLC	TX-0955	INEOS OLIGOMERS CHOCOLATE BAYOU	TX	03/14/2023	EQUIPMENT FUGITIVES	N/A	TCEQ 28LAER leak detection and repair (LDAR) quarterly instrument monitoring program with weekly AVO walk through checks and instrument directed repair	No limit listed		LAER	
RBLC	TX-0967	QUAIL RUN CARBON CAPTURE PLANT	TX	02/05/2024	EQUIPMENT FUGITIVES	N/A	28M leak detection and repair (LDAR) program (voluntary).□ The total VOC emission rate from equipment leak fugitives from all fugitives associated with the proposed project combined before taking LDAR credits is approximately 9.38 tpy, which does not require LDAR control per TCEQ Tier 1 BACT. However, the applicant will voluntarily implement the 28M LDAR program.	No limit listed		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
SCAQMD	477619/496862	Paramount Petroleum Corporation	CA	2/2/2024	Fugitive VOC Emission Sources for Petroleum Refineries	N/A	Detection via EPA Method 21, repair of leaks greater than 200 ppm must occur within 14 days.	200 ppm	LAER	
BAAQMD	Doc #: 78.1, rev 3	N/A	CA	1/18/2006	Flanges in petroleum service	N/A	100 ppm expressed as methane measured using EPA Reference Method 21; Graphitic Gaskets and BAAQMD Approved Inspection and Maintenance.	100 ppm	BACT	
BAAQMD	Doc #: 136.1, rev 3	N/A	CA	1/18/2006	Process Valves in petroleum service	N/A	100 ppm expressed as methane measured using EPA Reference Method 21; Bellows Valves; Diaphragm Valves; Quarter Turn Valves; Live Loaded Valves; or Other LowEmission Valves; Each w/BAAQMD Approved Inspection and Maintenance	100 ppm	BACT	

End of table

Appendix C-4b
BACT Analysis Database Search Results: Fugitives from Piping Components, GHG
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	FL-0368	NUCOR STEEL FLORIDA FACILITY	FL	02/14/2019	Meltshop Baghouse Fugitives	N/A	Scrap preheating & an energy monitoring and management system	438	LB/TON OF STEEL	12-month rolling average	BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Natural Gas Piping Fugitives	N/A	Audio, Visual, and Olfactory (AVO) inspection walk-throughs once per day	65.7	TONS	twelve (12) consecutive month period	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Fugitives	N/A	Proper piping design and installation.	104	T/YR		BACT-PSD	
RBLC	*LA-0394	GEISMAR PLANT	LA	12/12/2023	44-22 - AO-5 Fugitive Emissions	N/A	Implementation of an LDAR program is the most effective strategy for control of fugitive VOC emissions and will also minimize emissions of GHGs	No Limit Specified			BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Pickle Line Equipment (pickle line no. 3 fugitives)	N/A	Energy Efficient Design	No Limit Specified			BACT-PSD	
RBLC	TX-0774	BISHOP FACILITY	TX	11/12/2015	Fugitives	N/A	28VHP fugitive monitoring program on lines containing >10% methane	344	TPY		BACT-PSD	
RBLC	TX-0824	JACKSON COUNTY GENERATING FACILITY	TX	06/30/2017	Natural Gas Fugitives	N/A	weekly checks for leaks using audio, visual, and olfactory (AVO) sensing for natural gas leaks	693.3	T/YR		BACT-PSD	
RBLC	TX-0827	PRAXAIR CLEAR LAKE PLANT	TX	10/19/2017	HyCO FUGITIVES	N/A	No control specified	No Limit Specified			BACT-PSD	
RBLC	TX-0830	PRAXIAR CLEAR LAKE	TX	10/20/2017	HYCO FUGITIVES	N/A	No control specified	No Limit Specified			BACT-PSD	
RBLC	TX-0858	GULF COAST GROWTH VENTURES PROJECT	TX	06/12/2019	Fugitive Components	N/A	TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs for piping components in VOC service	No Limit Specified			BACT-PSD	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	FUGITIVES	N/A	TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs	No Limit Specified			BACT-PSD	
RBLC	TX-0881	EXXONMOBIL BEAUMONT REFINERY	TX	01/10/2020	FUGITIVES	N/A	Compliance with Refinery MACT fugitives and Texas 28VHP LDAR program.	No Limit Specified			BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	Fugitives	N/A	weekly AVO	No Limit Specified			BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Piping component leaks (EPN FUG)	N/A	TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs	No Limit Specified			BACT-PSD	
RBLC	TX-0964	NEDERLAND FACILITY	TX	10/05/2023	EQUIPMENT FUGITIVES	N/A	Good management practice and personal portable CO □ monitors for leaking detection	No Limit Specified			BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	GAS PIPING COMPONENTS-FUGITIVE LEAKS	N/A	Audible/visual/olfactory (AVO) monitoring and leak repair	No Limit Specified			N/A	

End of table

Appendix C-5
BACT Analysis Database Search Results: Circuit Breakers, GHG
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	FL-0354	LAUDERDALE PLANT	FL	08/25/2015	Circuit Breakers	N/A	Limitation on leaks	0.5	% PER YEAR	must have certified leak rate less than	BACT-PSD	
RBLC	FL-0355	FORT MYERS PLANT	FL	09/10/2015	Circuit breakers	N/A	Limitation on leak of SF6 from circuit breakers	0.5	PERCENT	leak rate per year	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Circuit breakers	N/A	Leak prevention. Must have manufacturer-guaranteed leak rate no more than 0.5% per year. Must be equipped with leakage detection systems and alarms.	No limit specified			BACT-PSD	
RBLC	FL-0363	DANIA BEACH ENERGY CENTER	FL	12/04/2017	Circuit breakers (two)	N/A	Certified leak rate < 0.5% per year	0.5	% LEAK PER YEAR		BACT-PSD	
RBLC	FL-0367	SHADY HILLS COMBINED CYCLE FACILITY	FL	07/27/2018	Two Circuit Breakers	N/A	Certified leak rate < 0.5% per year	0.5	% LEAK PER YEAR		BACT-PSD	
RBLC	FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	FL	06/07/2021	Two Circuit Breakers	N/A	Certified leak rate < 0.5% per year	0.5	% LEAK PER YEAR		BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Circuit Breakers	N/A	Not specified	0.5	% LEAK RATE	calendar year average	BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Circuit Breakers	N/A	Not specified	0.5	PERCENT LEAK RATE	calendar year average	BACT-PSD	
RBLC	IL-0133	LINCOLN LAND ENERGY CENTER	IL	07/29/2022	Circuit Breakers	N/A	Not specified	0.5	PERCENT LEAK RATE	12-month rolling average	BACT-PSD	
RBLC	IN-0294	ST. JOSEPH ENERGY CENTER, LLC	IN	08/08/2018	Circuit Breakers SF6	N/A	Not specified	No limit specified			OTHER CASE-BY-CASE	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Electrical Circuit Breakers	N/A	fully enclosed pressurized SF6 circuit breakers outfitted with density alarms for leak detection	0.5	%	per twelve (12) consecutive month period	BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Circuit Breakers	N/A	totally enclosed and pressurized circuit breakers with a design leak rate of no more than 0.5% and a density alarm for leak detection	73.6	LB	twelve (12) consecutive month period	BACT-PSD	
RBLC	KS-0029	THE EMPIRE DISTRICT ELECTRIC COMPANY	KS	07/14/2015	Insulated circuit breaker	N/A	Installation of modern, totally enclosed SF6 circuit breakers with density (leak detection) alarms and a guaranteed loss rate of < 0.5 % by weight per year.	6.9	TONS PER YEAR		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Circuit Breakers	N/A	Enclosed pressure design with a low pressure detection system with an alarm to limit SF6 leak rate to 0.5 % per year.	85	T/YR		BACT-PSD	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	CIRCUIT BREAKERS	N/A	Not specified	No limit specified			OTHER CASE-BY-CASE	
RBLC	MD-0045	MATTAWOMAN ENERGY CENTER	MD	11/13/2015	CIRCUIT BREAKERS	N/A	GHG BACT FOR THE CIRCUIT BREAKERS SHALL BE INSTALLATION OF STATE-OF-THE-ART CIRCUIT BREAKERS THAT ARE DESIGNED TO MEET ANSI C37.013 OR EQUIVALENT TO DETECT AND MINIMIZE SF6 LEAKS	No limit specified			BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Circuit breakers with SF6	N/A	low pressure alarms and low pressure lockout system	6	LB/12MO	any 12 consecutive month period	BACT-PSD	
RBLC	PA-0309	LACKAWANNA ENERGY CTR/JESSUP	PA	12/23/2015	Circuit breakers with SF6	N/A	Not specified	79.8	TONS	any 12 consecutive month period	BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Circuit breakers	N/A	State-of-the-art sealed enclosed-pressure circuit breakers with leak detection	1500	PPM		BACT-PSD	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	CIRCUIT BREAKERS (3)	N/A	Enclosed pressure type breaker and leak detector	19	T/YR		N/A	
RBLC	VA-0325	GREENSVILLE POWER STATION	VA	06/17/2016	CIRCUIT BREAKERS (11)	N/A	Enclosed pressure type breaker and leak detection	1032	T/YR		N/A	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Circuit Breakers - 6	N/A	Enclosed-pressure design with low-pressure detection system (with alarm).	No limit specified			BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Circuit Breakers	N/A	Enclosed-pressure design with low-pressure detection system (with alarm).	No limit specified			BACT-PSD	
RBLC	WI-0299	WPL- RIVERSIDE ENERGY CENTER	WI	08/20/2020	Sulfur Hexafluoride Containing Circuit Breakers and Transformers (F90)	N/A	Not specified	0.5	% LEAK	annually	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Low-Side Generator Enclosed Pressure SF6 Circuit Breakers (F03)	N/A	Not specified	0.5	% BY WEIGHT/ YEAR		BACT-PSD	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	Circuit breakers containing SF6	N/A	State-of-the-art enclosed-pressure circuit breakers with leak detection equipment	1	% LEAK	annually	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	Circuit breakers containing SF6	N/A	State-of-the-art enclosed-pressure circuit breakers with leak detection equipment	0.5	% LEAK	annually	BACT	

End of table

Appendix C-6a
BACT Analysis Database Search Results: Fuel Gas Heaters, PM
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IL-0121	INVENERGY NELSON EXPANSION LLC	IL	09/27/2016	Fuel Heater	Natural Gas	No control listed	0.105	lb/hr	3-hour average	BACT-PSD	
RBLC	IL-0121	INVENERGY NELSON EXPANSION LLC	IL	09/27/2016	Fuel Heater	Natural Gas	No control listed	0.105	lb/hr	3-hour average	BACT-PSD	
RBLC	IL-0121	INVENERGY NELSON EXPANSION LLC	IL	09/27/2016	Fuel Heater	Natural Gas	No control listed	0.105	lb/hr	3-hour average	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Fuel Heater	Natural Gas	Good combustion practice	0.0075	lb/MMBtu		BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Fuel Heater	Natural Gas	Good combustion practice	0.0075	lb/MMBtu		BACT-PSD	
RBLC	*IL-0137	MARQUIS CARBON CAPTURE LLC	IL	06/23/2025	Space Heaters	Natural Gas	Natural gas shall be the only fuel fired in the heaters; good combustion practices	0.0005	lb/MMBtu	12-month rolling	BACT-PSD	
RBLC	*IL-0137	MARQUIS CARBON CAPTURE LLC	IL	06/23/2025	Space Heaters	Natural Gas	Natural gas shall be the only fuel fired in the heaters; good combustion practices	0.0004	lb/MMBtu	12-month rolling	BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Turbine Fuel Heaters	Natural Gas	good combustion practices and use of pipeline quality gas	0.0019	lb/MMBtu	3-hour average	BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Dew Point Heater	Natural Gas	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUELS	0.0048	LB	mmbtu	BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Dew Point Heater	Natural Gas	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUELS	0.0048	LB	mmbtu	BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Dew Point Heater	Natural Gas	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUELS	0.0048	LB	mmbtu	BACT-PSD	
RBLC	KS-0032	CHS MCPHERSON REFINERY, INC.	KS	12/14/2015	Process heaters	refinery fuel gas	No control listed	0.008	lb/MMBtu	for new and modified heaters	BACT-PSD	
RBLC	KS-0032	CHS MCPHERSON REFINERY, INC.	KS	12/14/2015	Process heaters	refinery fuel gas	No control listed	0.008	lb/MMBtu	for new and modified heaters	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	1.9	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	7.6	LB/MMSC F		BACT-PSD	
RBLC	*LA-0306	TOPCHEM POLLOCK, LLC	LA	12/20/2016	Ammonia Converter Start-up Heater Stack SUH-16-1	Natural Gas	Use of pipeline quality natural gas and good combustion practices	0.18	lb/hr	hourly maximum	BACT-PSD	
RBLC	MO-0089	OWENS CORNING INSULATION SYSTEMS, LLC	MO	05/12/2016	natural gas fired heaters	natural gas	good combustion practices, maximum energy efficiency	No limit listed			BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Ladle Preheaters and Dryers (P021-023, P025-026)	Natural Gas	Use of natural gas, good combustion practices and design	0.05	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Ladle Preheaters and Dryers (P021-023, P025-026)	Natural Gas	Use of natural gas, good combustion practices and design	0.05	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Ladle Preheaters and Dryers (P021-023, P025-026)	Natural Gas	Use of natural gas, good combustion practices and design	0.05	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tundish Preheaters #3 and #4 (P028 and P029)	Natural Gas	Use of natural gas, good combustion practices and design	0.03	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tundish Preheaters #3 and #4 (P028 and P029)	Natural Gas	Use of natural gas, good combustion practices and design	0.03	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tundish Preheaters #3 and #4 (P028 and P029)	Natural Gas	Use of natural gas, good combustion practices and design	0.03	lb/hr		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fuel Gas Heater		No control listed	0.007	lb/MMBtu		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fuel Gas Heater		No control listed	0.007	lb/MMBtu		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fuel Gas Heater		No control listed	0.007	lb/MMBtu		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	SC-0182	FIBER INDUSTRIES LLC	SC	10/31/2017	Process Heaters		Use of clean fuel, and Good Combustion Practices to ensure complete combustion, and efficient heater designs. Slowly increase/decrease firing rate while maintaining a minimum of 3% O2 in stack gas, monitor opacity, minimize the heater startup and shutdown periods.	0.0076	LB/MM BTU / HEATER	BACT-PSD	
RBLC	SC-0182	FIBER INDUSTRIES LLC	SC	10/31/2017	Process Heaters		Use of clean fuel, and Good Combustion Practices to ensure complete combustion, and efficient heater designs. Slowly increase/decrease firing rate while maintaining a minimum of 3% O2 in stack gas, monitor opacity, minimize the heater startup and shutdown periods.	0.0076	LB/MM BTU / HEATER	BACT-PSD	
RBLC	SC-0182	FIBER INDUSTRIES LLC	SC	10/31/2017	Process Heaters		Use of clean fuel, and Good Combustion Practices to ensure complete combustion, and efficient heater designs. Slowly increase/decrease firing rate while maintaining a minimum of 3% O2 in stack gas, monitor opacity, minimize the heater startup and shutdown periods.	0.0076	LB/MM BTU / HEATER	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Galvanizing Line Equipment (galvanizing line 2 cleaning section heaters)	natural gas	Good Combustion Practices	1.9	LB/MMSC F	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Galvanizing Line Equipment (galvanizing line 2 cleaning section heaters)	natural gas	Good combustion practices	7.6	LB/MMSC F	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Galvanizing Line Equipment (galvanizing line 2 cleaning section heaters)	natural gas	Good combustion practices	7.6	LB/MMSC F	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Galvanizing Line Equipment (galvanizing line/alkali cleaning section heaters)	natural gas	No control listed	No limit listed		BACT-PSD	
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Ammonia Start-Up Heater	pipeline quality natural gas	use of gaseous fuel	0.4	lb/hr	OTHER CASE-BY-CASE	
RBLC	TX-0865	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	Process Heaters	natural gas, process gas	Good combustion practices and low-emitting gaseous fuel.	0.007	lb/MMBtu	BACT-PSD	
RBLC	TX-0865	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	Process Heaters	natural gas, process gas	Good combustion practices and low-emitting gaseous fuel.	0.007	lb/MMBtu	BACT-PSD	
RBLC	TX-0865	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	Process Heaters	natural gas, process gas	Good combustion practices and low-emitting gaseous fuel.	0.007	lb/MMBtu	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Isomar Charge Heater	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed		BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Isomar Charge Heater	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed		BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Isomar Charge Heater	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed		BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	REFORMATE HEATER	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent.	No limit listed		BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	REFORMATE HEATER	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent.	No limit listed		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	REFORMATE HEATER	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	RAFFINATE HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	RAFFINATE HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	RAFFINATE HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	STRIPPER HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	STRIPPER HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	STRIPPER HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	STRIPPER HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Fractionation Heaters	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Fractionation Heaters	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Fractionation Heaters	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Greater than 100 MMBtu/lb Fractionation Heater	REFINERY FUEL	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Greater than 100 MMBtu/lb Fractionation Heater	REFINERY FUEL	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Greater than 100 MMBtu/lb Fractionation Heater	REFINERY FUEL	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence	No limit listed	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Hydrotreating Heaters	refinery fuel	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Hydrotreating Heaters	refinery fuel	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Hydrotreating Heaters	refinery fuel	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent.	No limit listed	BACT-PSD	
RBLC	TX-0874	PORT ARTHUR REFINERY	TX	02/04/2020	Fractionation Heaters with less than 100 MMBtu/hr heating capacity	NATURAL GAS/REFINERY FUEL	Good combustion practices will be used to reduce CO including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. ☐ ☐ Use of natural pipeline gas or refinery fuel with sulfur concentration below 0.1 grains dry standard cubic feet.	No limit listed	BACT-PSD	
RBLC	TX-0874	PORT ARTHUR REFINERY	TX	02/04/2020	Fractionation Heaters with less than 100 MMBtu/hr heating capacity	NATURAL GAS/REFINERY FUEL	Good combustion practices will be used to reduce CO including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. ☐ ☐ Use of natural pipeline gas or refinery fuel with sulfur concentration below 0.1 grains dry standard cubic feet.	No limit listed	BACT-PSD	
RBLC	TX-0874	PORT ARTHUR REFINERY	TX	02/04/2020	Fractionation Heaters with less than 100 MMBtu/hr heating capacity	NATURAL GAS/REFINERY FUEL	Good combustion practices will be used to reduce CO including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. ☐ ☐ Use of natural pipeline gas or refinery fuel with sulfur concentration below 0.1 grains dry standard cubic feet.	No limit listed	BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	LINE HEATER	NATURAL GAS	Good combustions practices and pipeline natural gas to limit opacity to 5%	No limit listed	BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	LINE HEATER	NATURAL GAS	Good combustions practices and pipeline natural gas to limit opacity to 5%	No limit listed	LAER	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	LINE HEATER	NATURAL GAS	Good combustions practices and pipeline natural gas to limit opacity to 5%	No limit listed	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	CCR Charge and Inter-stage Heaters	Refinery fuel gas and natural gas	good combustion practices and ☐ firing either refinery fuel gas or pipeline quality sweet natural gas	No limit listed	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	CCR Charge and Inter-stage Heaters	Refinery fuel gas and natural gas	good combustion practices and ☐ firing either refinery fuel gas or pipeline quality sweet natural gas	No limit listed	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	CCR Charge and Inter-stage Heaters	Refinery fuel gas and natural gas	good combustion practices and ☐ firing either refinery fuel gas or pipeline quality sweet natural gas	No limit listed	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	Crude charge heaters	Refinery fuel gas and natural gas	good combustion practices and ☐ firing either refinery fuel gas or pipeline quality sweet natural gas	No limit listed	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	Crude charge heaters	Refinery fuel gas and natural gas	good combustion practices and ☐ firing either refinery fuel gas or pipeline quality sweet natural gas	No limit listed	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	Crude charge heaters	Refinery fuel gas and natural gas	good combustion practices and ☐ firing either refinery fuel gas or pipeline quality sweet natural gas	No limit listed	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Greater than or Equal to 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas. Opacity not to exceed 5 percent over six minutes.	0.0089 lb/MMBtu	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Greater than or Equal to 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas. Opacity not to exceed 5 percent over six minutes.	0.0089 lb/MMBtu	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Greater than or Equal to 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas. Opacity not to exceed 5 percent over six minutes.	0.0089 lb/MMBtu	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Less than 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas. Opacity not to exceed 5 percent over six minutes.	0.0089 lb/MMBtu	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Less than 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas. Opacity not to exceed 5 percent over six minutes.	0.0089 lb/MMBtu	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Less than 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas. Opacity not to exceed 5 percent over six minutes.	0.0089 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Process Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Process Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Process Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Steam Superheaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Steam Superheaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Steam Superheaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Steam Superheaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Loop SU Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Loop SU Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Loop SU Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Regeneration Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Regeneration Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Regeneration Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Isomerization Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Isomerization Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Isomerization Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Hydrocracker Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Hydrocracker Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Hydrocracker Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Post Treatment Heater	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Post Treatment Heater	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Post Treatment Heater	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0075 lb/MMBtu	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Dew Point Heater	natural gas	Good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12 mo rolling av	0.5 T/YR	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Dew Point Heater	natural gas	Good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12 mo rolling av	0.5 T/YR	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Fuel Gas Heaters	Natural Gas	: Good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12-month rolling average.	0.5	T/YR (EACH)	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Fuel Gas Heaters	Natural Gas	Good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12-month rolling average.	0.4	T/YR	BACT-PSD	
RBLC	WI-0263	WISCONSIN POWER & LIGHT - NEENAH GENERATING STATION	WI	02/15/2016	Natural gas-fired glycol heaters (processes P03 and P04)	Natural gas	Good combustion practices and use of natural gas	0.008	lb/MMBtu	BACT-PSD	
RBLC	WI-0263	WISCONSIN POWER & LIGHT - NEENAH GENERATING STATION	WI	02/15/2016	Natural gas-fired glycol heaters (processes P03 and P04)	Natural gas	Good combustion practices and use natural gas	0.008	lb/MMBtu	BACT-PSD	
RBLC	WI-0263	WISCONSIN POWER & LIGHT - NEENAH GENERATING STATION	WI	02/15/2016	Natural gas-fired glycol heaters (processes P03 and P04)	Natural gas	Good combustion practices and use natural gas	0.008	lb/MMBtu	BACT-PSD	
RBLC	WI-0264	WPSC - WEST MARINETTE	WI	02/15/2016	Natural gas-fired pipeline heater (process P14)	Natural gas	Good combustion practices and only fire pipeline quality natural gas	0.008	lb/MMBtu	BACT-PSD	
RBLC	WI-0264	WPSC - WEST MARINETTE	WI	02/15/2016	Natural gas-fired pipeline heater (process P14)	Natural gas	Good combustion practices and use pipeline quality natural gas	0.008	lb/MMBtu	BACT-PSD	
RBLC	WI-0264	WPSC - WEST MARINETTE	WI	02/15/2016	Natural gas-fired pipeline heater (process P14)	Natural gas	Good combustion practices, only fire pipeline quality natural gas	0.008	lb/MMBtu	BACT-PSD	
RBLC	WI-0299	WPL- RIVERSIDE ENERGY CENTER	WI	08/20/2020	Natural Gas-Fired Space and Unit Heater (P30)	Natural Gas	Only combust natural gas in each heater.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	WI-0299	WPL- RIVERSIDE ENERGY CENTER	WI	08/20/2020	Natural Gas-Fired Space and Unit Heater (P30)	Natural Gas	Only combust natural gas in each heater.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	WI-0299	WPL- RIVERSIDE ENERGY CENTER	WI	08/20/2020	Natural Gas-Fired Space and Unit Heater (P30)	Natural Gas	Only combust natural gas in each heater.	0.0075	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P04)	Natural Gas	Operate and maintain heaters according to manufacturer's recommendations. Only combust pipeline quality natural gas.	0.01	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P04)	Natural Gas	Operate and maintain according to manufacturer's recommendations. Only combust pipeline quality natural gas.	0.01	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P04)	Natural Gas	Operate and maintain heater according to manufacturer's recommendations. Only combust pipeline quality natural gas.	0.01	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P05)	Natural Gas	Operate and maintain heater according to the manufacturer's recommendations and only combust pipeline quality natural gas.	0.01	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P05)	Natural Gas	Operate and maintain heater according to the manufacturer's recommendations and only combust pipeline quality natural gas.	0.01	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P05)	Natural Gas	Operate and maintain heater according to the manufacturer's recommendations and only combust pipeline quality natural gas.	0.01	lb/MMBtu	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Vacuum Tower Process Heater (P21)	Refinery Fuel Gas	Good combustion practices.	0.0075	lb/MMBtu HEAT INPUT	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Vacuum Tower Process Heater (P21)	Refinery Fuel Gas	Good combustion practices.	0.0075	lb/MMBtu HEAT INPUT	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Vacuum Tower Process Heater (P21)	Refinery Fuel Gas	Good combustion practices.	0.0075	lb/MMBtu HEAT INPUT	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Hot Oil Process Heater (P36A)	Refinery Fuel Gas	Use of good combustion practices	0.0075	lb/MMBtu HEAT INPUT	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Hot Oil Process Heater (P36A)	Refinery Fuel Gas	Use of good combustion practices	0.0075	lb/MMBtu HEAT INPUT	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Hot Oil Process Heater (P36A)	Refinery Fuel Gas	Use of good combustion practices	0.0075	lb/MMBtu HEAT INPUT	BACT-PSD	
RBLC	WI-0314	WISCONSIN PUBLIC SERVICE CORPORATION-WESTON PLANT	WI	03/10/2022	Space and Water Heaters (P113)	Natural Gas	Use of good combustion practices and use of pipeline quality natural gas.	No limit listed		BACT-PSD	
RBLC	WI-0314	WISCONSIN PUBLIC SERVICE CORPORATION-WESTON PLANT	WI	03/10/2022	Space and Water Heaters (P113)	Natural Gas	Use of good combustion practices and use of pipeline quality natural gas.	No limit listed		BACT-PSD	
RBLC	WI-0314	WISCONSIN PUBLIC SERVICE CORPORATION-WESTON PLANT	WI	03/10/2022	Space and Water Heaters (P113)	Natural Gas	Use of good combustion practices and use of pipeline quality natural gas.	No limit listed		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Water Bath Heater with a heat input rating of less than 10 MMBtu/hr	Natural Gas	Natural gas and good combustion practices	0.005 lb/MMBtu	BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices and pipeline quality natural gas	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices and pipeline quality natural gas	No limit listed.	BACT	

End of table

Appendix C-6b
BACT Analysis Database Search Results: Fuel Gas Heaters, GHG
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IL-0121	INVENERGY NELSON EXPANSION LLC	IL	09/27/2016	Fuel Heater	Natural Gas	No control listed	1836	TPY	12-month rolling total	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Fuel Heater	Natural Gas	Good combustion practice	6600	TON/YR	12-month rolling average	BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Fuel Heater	Natural Gas	Good combustion practice	6700	TONS/YE AR	12-month rolling average	BACT-PSD	
RBLC	*IL-0137	MARQUIS CARBON CAPTURE LLC	IL	06/23/2025	Space Heaters	Natural Gas	Natural gas shall be the only fuel fired in the heaters; good combustion practices	117.1	lb/MMBtu	12-month rolling	BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Turbine Fuel Heaters	Natural Gas	good combustion practices and use of pipeline quality natural gas	10258	TONS	per twelve (12) consecutive month period	BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Dew Point Heater	Natural Gas	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUELS	No limit listed			BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	11922	TONS/YR	12-month rolling	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan and implement various design and operational efficiency requirements.	30	TONS/YR	12-month rolling	BACT-PSD	
RBLC	*LA-0306	TOPCHEM POLLOCK, LLC	LA	12/20/2016	Ammonia Converter Start-up Heater Stack SUH-16-1 (EQT030)	Natural Gas	Use of pipeline quality natural gas and good combustion practices	169	T/YR	annual maximum	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Ladle Preheaters and Dryers (P021-023, P025-026)	Natural Gas	Use of natural gas and energy efficient design	1869.65	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tundish Preheaters #3 and #4 (P028 and P029)	Natural Gas	Use of natural gas and energy efficient design	1110.1	lb/hr		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fuel Gas Heater		No control listed	7845	TPY	12-month rolling basis	BACT-PSD	
RBLC	SC-0182	FIBER INDUSTRIES LLC	SC	10/31/2017	Process Heaters		Use of clean fuel, and Good Combustion Practices to ensure complete combustion, and efficient heater designs. Slowly increase/decrease firing rate while maintaining a minimum of 3% O2 in stack gas, monitor opacity, minimize the heater startup and shutdown periods.	84627	TPY / HEATER	12 month rolling average	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Galvanizing Line Equipment (galvanizing line 2 cleaning section heaters)	natural gas	Use of natural gas and efficient combustion technology through good combustion practices	4924	TPY	combined limit	BACT-PSD	
RBLC	TX-0770	ORIENTED STRANDBOARD (OSB) MILL	TX	10/23/2015	Standby Thermal Oil Heater (TO-2)	natural gas	Good combustion operating practices.	2864	T/YR		BACT-PSD	
RBLC	TX-0824	JACKSON COUNTY GENERATING FACILITY	TX	06/30/2017	Natural-Gas-Fired Fuel Gas Heaters	NATURAL GAS	natural gas as a low carbon fuel, good operating and maintenance practices, efficient design, and low annual capacity	2818.74	T/YR		BACT-PSD	
RBLC	TX-0865	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	Process Heaters	natural gas, process gas	Good combustion practices and low-emitting gaseous fuel.	No limit listed			BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Fractionation Heaters (Routine)	NATURAL GAS/FUEL GAS	Use of natural gas. Good combustion practices will be used to reduce CO2e including maintaining proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ Equipped with fuel flow monitor and CEMS	No limit listed			BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Hot Oil Heaters (Routine)	NATURAL GAS/FUEL GAS	Use of natural gas. Good combustion practices will be used to reduce CO including maintaining proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ Equipped with fuel flow monitor.	No limit listed			BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Tank Heaters (Routine)	NATURAL GAS	Use of natural gas. Good combustion practices will be used to reduce CO including maintaining proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Equipped with fuel flow monitor.	No limit listed			BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Heater MSS â€™ Fractionation Heaters	NATURAL GAS	Limiting duration and frequency of MSS.□ 96 annual operating hours. 2 hours per event	No limit listed			BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Isomar Charge Heater	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	REFORMATE HEATER	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	RAFFINATE HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	STRIPPER HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Fractionation Heaters	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Greater than 100 MMBtu/lb Fractionation Heater	REFINERY FUEL	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Hydrotreating Heaters	refinery fuel	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	No limit listed	BACT-PSD	
RBLC	TX-0874	PORT ARTHUR REFINERY	TX	02/04/2020	Fractionation Heaters with less than 100 MMBtu/hr heating capacity	NATURAL GAS/REFINERY FUEL	Good combustion practices will be used to reduce CO including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. □ □ Use of natural pipeline gas or refinery fuel with sulfur concentration below 0.1 grains dry standard cubic feet.	No limit listed	BACT-PSD	
RBLC	TX-0889	SWEENEY OLD OCEAN FACILITIES	TX	08/08/2020	Catalyst Activator Heaters	NATURAL GAS	Good combustion practices	No limit listed	BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	LINE HEATER	NATURAL GAS	Good combustions practices and properly maintaining the unit	No limit listed	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	CCR Charge and Inter-stage Heaters	Refinery fuel gas and natural gas	good combustion practices and □ firing either refinery fuel gas or pipeline quality sweet natural gas	No limit listed	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	Crude charge heaters	Refinery fuel gas and natural gas	energy efficient design, low carbon fuels, and good combustion practices	No limit listed	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Greater than or Equal to 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Low carbon fuel selection. Good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence.	No limit listed	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Less than 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas. Good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence.	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Process Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Steam Superheaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Loop SU Heaters	NATURAL GAS	good combustion practices and the use of gaseous fuel	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Regeneration Heaters	NATURAL GAS	good combustion practices and the use of gaseous fuel	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Isomerization Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Hydrocracker Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	No limit listed	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Post Treatment Heater	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	No limit listed	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Dew Point Heater	natural gas	use of natural gas and high efficiency design and operation	8208 T/YR	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Fuel Gas Heaters	Natural Gas	use of natural gas and high efficiency design and operation	6261 T/YR	BACT-PSD	
RBLC	WI-0266	GREEN BAY PACKAGING, INC. - SHIPPING CONTAINER DIVISION	WI	09/06/2018	Space heaters (process P53)	Natural gas	Good combustion practices, use only natural gas, equip with Low NOx burners, minimum design annual fuel utilization efficiency of 90%	No limit listed	BACT-PSD	
RBLC	WI-0297	GREEN BAY PACKAGING-MILL DIVISION	WI	12/10/2019	Natural Gas-Fired Space Heaters (P44)	Natural Gas	Use only natural gas.	90 % AVG THERM EFF	BACT-PSD	
RBLC	WI-0297	GREEN BAY PACKAGING-MILL DIVISION	WI	12/10/2019	Natural Gas-Fired Space Heaters (P53)	Natural Gas	Only fire natural gas.	90 % AVG THERM EFF	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P04)	Natural Gas	Low-NOx burners, only combust pipeline quality natural gas, and operate and maintain heater according to manufacturer's recommendations.	No limit listed	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P05)	Natural Gas	Low-NOx burners, only combust pipeline quality natural gas, and operate and maintain according to manufacturer's recommendations.	No limit listed	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Vacuum Tower Process Heater (P21)	Refinery Fuel Gas	Good combustion practices and to operate the steam production system at all times that the heater is operating except for periods of heater maintenance, startup or shutdown.	No limit listed	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Hot Oil Process Heater (P36A)	Refinery Fuel Gas	Good combustion practices	No limit listed SEE NOTES	BACT-PSD	
RBLC	WI-0314	WISCONSIN PUBLIC SERVICE CORPORATION-WESTON PLANT	WI	03/10/2022	Space and Water Heaters (P113)	Natural Gas	Use of good combustion practices, use of pipeline quality natural gas	No limit listed	BACT-PSD	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Water Bath Heater with a heat input rating of less than 10 MMBtu/hr	Natural Gas	Natural gas and good combustion practices	No limit listed	BACT	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Use of low carbon fuels, oxidation catalyst, and efficient design.	No limit listed.	BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Use of low carbon fuels, oxidation catalyst, and efficient design.	No limit listed.	BACT	

End of table

Appendix C-6c
BACT Analysis Database Search Results: Fuel Gas Heaters, CO
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Fuel Heater	Natural Gas	Good combustion practice	0.08	lb/hr		BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Fuel Heater	Natural Gas	Good combustion practice	0.08	lb/MMBtu		BACT-PSD	
RBLC	IN-0288	WAUPACA FOUNDRY, INC. PLANT 5	IN	06/25/2018	P51A, P54A, P51B, Hot Water Heater	Natural Gas	No control listed	84	LB/MILLION FT3		BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Turbine Fuel Heaters	Natural Gas	good combustion practices	0.08	lb/MMBtu	3-hour average	BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Dew Point Heater	Natural Gas	GOOD COMBUSTION PRACTICES	84	LB	mmcf	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	84	LB/MMSCF		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	84	LB/MMSCF		BACT-PSD	
RBLC	*LA-0306	TOPCHEM POLLOCK, LLC	LA	12/20/2016	Ammonia Converter Start-up Heater Stack SUH-16-1 (EQT030)	Natural Gas	Use of pipeline quality natural gas and good combustion practices	1.96	lb/hr	hourly maximum	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Ladle Preheaters and Dryers (P021-023, P025-026)	Natural Gas	Use of natural gas, good combustion practices and design	0.32	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tundish Preheaters #3 and #4 (P028 and P029)	Natural Gas	Use of natural gas, good combustion practices and design	0.19	lb/hr		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Dew point heater 13.8		No control listed	0.08	lb/MMBtu		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Dew point heater 3.2	Natural Gas	No control listed	0.08	lb/MMBtu		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fuel Gas Heater		No control listed	0.037	lb/MMBtu		BACT-PSD	
RBLC	SC-0182	FIBER INDUSTRIES LLC	SC	10/31/2017	Process Heaters		Use of clean fuel, and Good Combustion Practices to ensure complete combustion, and efficient heater designs. Slowly increase/decrease firing rate while maintaining a minimum of 3% O2 in stack gas, monitor opacity, minimize the heater startup and shutdown periods.	0.04	LB/MM BTU / HEATER	50 mm btu and 54 mm btu heaters	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Galvanizing Line Equipment (galvanizing line 2 cleaning section heaters)	natural gas	Good Combustion Practices	84	LB/MMSCF		BACT-PSD	
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Ammonia Start-Up Heater	pipeline quality natural gas	limited hours of operation	1.96	lb/hr		OTHER CASE-BY-CASE	
RBLC	TX-0754	PROPANE DEHYDROGENATION UNIT	TX	07/10/2015	Heaters	Natural gas or other gaseous fuels	good combustion practices	50	PPMVD @ 3% O2	hourly	BACT-PSD	
RBLC	TX-0770	ORIENTED STRANDBOARD (OSB) MILL	TX	10/23/2015	Standby Thermal Oil Heater (TO-2)	natural gas	Good combustion practices with clean burning fuel and limited operating hours	1.78	T/YR		BACT-PSD	
RBLC	TX-0865	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	Process Heaters	natural gas, process gas	Good combustion practices and low-emitting gaseous fuel.	50	PPMV	3% o2 1-hr average	BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Fractionation Heaters (Routine)	NATURAL GAS/FUEL GAS	Use of natural gas. Good combustion practices will be used to reduce CO including maintaining proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ □ . Equipped with fuel flow monitor and CEMS. Stack testing required within 60 days of achieving maximum operation rate	50	PPMV	3% o2	BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Hot Oil Heaters (Routine)	NATURAL GAS/FUEL GAS	Use of natural gas. Good combustion practices will be used to reduce CO including maintaining proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ □ Equipped with fuel flow monitor and CEMS. Stack testing required within 60 days of achieving maximum operation rate.	50	PPMV	3% o2	BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Tank Heaters (Routine)	NATURAL GAS	Use of natural gas. Good combustion practices will be used to reduce CO including maintaining proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Equipped with fuel flow monitor.	50	PPMV	3% o2	BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Heater MSS â€” Fractionation Heaters	NATURAL GAS	Limiting duration and frequency of MSS. □ 96 annual operating hours. 2 hours per event	300	PPMV	3% o2	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Isomar Charge Heater	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	50	PPMV	3% o2	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	REFORMATE HEATER	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	50	PPMV	3% o2	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	RAFFINATE HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed			BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	STRIPPER HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed			BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Fractionation Heaters	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ Combustion of pipeline-quality natural gas.	50	PPMV	3% o2	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Greater than 100 MMBtu/lb Fractionation Heater	REFINERY FUEL	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	No limit listed			BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Hydrotreating Heaters	refinery fuel	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	50	PPMV	3% o2	BACT-PSD	
RBLC	TX-0874	PORT ARTHUR REFINERY	TX	02/04/2020	Fractionation Heaters with less than 100 MMBtu/hr heating capacity	NATURAL GAS/REFINERY FUEL	Good combustion practices will be used to reduce CO including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. □ □ Use of natural pipeline gas or refinery fuel with sulfur concentration below 0.1 grains dry standard cubic feet.	50	PPMV	3% o2	BACT-PSD	
RBLC	TX-0889	SWEENEY OLD OCEAN FACILITIES	TX	08/08/2020	Catalyst Activator Heaters	NATURAL GAS	Good combustion practices	0.082	lb/MMBtu	3% o2	BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	LINE HEATER	NATURAL GAS	Good combustions practices and pipeline natural gas	50	PPMVD		BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	CCR Charge and Inter-stage Heaters	Refinery fuel gas and natural gas	GOOD COMBUSTION PRACTICES	100	PPMVD	hourly	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	Crude charge heaters	Refinery fuel gas and natural gas	GOOD COMBUSTION PRACTICES	100	PPMVD	hourly	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Greater than or Equal to 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence. CEMS required	50	PPMVD	3% o2	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Less than 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas. Good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence.	50	PPMVD	3% o2	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Process Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	50	PPMVD		BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Steam Superheaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	50	PPMVD		BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Loop SU Heaters	NATURAL GAS	good combustion practices and the use of gaseous fuel	50	PPMVD		BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Regeneration Heaters	NATURAL GAS	good combustion practices and the use of gaseous fuel	50	PPMVD		BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Isomerization Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	50	PPMVD		BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Hydrocracker Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	50	PPMVD		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Post Treatment Heater	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	50	PPMVD	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Dew Point Heater	natural gas	good combustion practices	2.6	T/YR	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Fuel Gas Heaters	Natural Gas	good combustion practices, operator training, and proper emissions unit design, construction and maintenance.	0.037	lb/MMBtu	BACT-PSD	
RBLC	WI-0263	WISCONSIN POWER & LIGHT - NEENAH GENERATING STATION	WI	02/15/2016	Natural gas-fired glycol heaters (processes P03 and P04)	Natural gas	Good combustion practices and use natural gas	0.08	lb/MMBtu	BACT-PSD	
RBLC	WI-0264	WPSC - WEST MARINETTE	WI	02/15/2016	Natural gas-fired pipeline heater (process P14)	Natural gas	Good combustion practices, only fire pipeline quality natural gas	0.08	lb/MMBtu	BACT-PSD	
RBLC	WI-0299	WPL- RIVERSIDE ENERGY CENTER	WI	08/20/2020	Natural Gas-Fired Space and Unit Heater (P30)	Natural Gas	Only combust natural gas in each heater.	0.082	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P04)	Natural Gas	Only combust pipeline quality natural gas and operate and maintain the process according to manufacturerâ€™s recommendations.	0.08	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P05)	Natural Gas	Only combust pipeline quality natural gas and operate and maintain heater according to the manufacturerâ€™s recommendations.	0.08	lb/MMBtu	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Vacuum Tower Process Heater (P21)	Refinery Fuel Gas	Use of ultra-low NOx burners and good combustion practices.	30	PPMVD, 3% O2	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Hot Oil Process Heater (P36A)	Refinery Fuel Gas	Use of ultra-low NOx burners and good combustion practices	30	PPMVD at 3% o2	BACT-PSD	
RBLC	WI-0314	WISCONSIN PUBLIC SERVICE CORPORATION- WESTON PLANT	WI	03/10/2022	Space and Water Heaters (P113)	Natural Gas	Use of good combustion practices and use of pipeline quality natural gas.	0.084	lb/MMBtu of heat input	BACT-PSD	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Water Bath Heater with a heat input rating of less than 10 MMBtu/hr	Natural Gas	Natural gas and good combustion practices	0.074	lb/MMBtu	BACT	Also lists limit of 100 ppmvd, corrected to 3% O2
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices and oxidation catalyst.	0.037	lb/MMBtu	BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices and oxidation catalyst.	0.037	lb/MMBtu	BACT	

End of table

Appendix C-6d
BACT Analysis Database Search Results: Fuel Gas Heaters, SO2
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	KS-0032	CHS MCPHERSON REFINERY, INC.	KS	12/14/2015	Process heaters	refinery fuel gas	BACT for sulfur dioxide is established by limiting the hydrogen sulfide (H2S) content of the refinery fuel gas. The H2S content of the fuel gas is measured on a continuous basis.	160 PPM at 0% O2, 3 hour rolling average	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6 LB/MMSC F	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	0.6 LB/MMSC F	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Ladle Preheaters and Dryers (P021-023, P025-026)	Natural Gas	Use of natural gas, good combustion practices and design	0.01 lb/hr	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tundish Preheaters #3 and #4 (P028 and P029)	Natural Gas	Use of natural gas, good combustion practices and design	0.01 lb/hr	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Galvanizing Line Equipment (glavanizing line 2 cleaning section heaters)	natural gas	Good combustion practices	0.6 LB/MMSC F	BACT-PSD	
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Ammonia Start-Up Heater	pipeline quality natural gas	limited hours of operation and low sulfur fuel	0.03 lb/hr	OTHER CASE-BY-CASE	
RBLC	TX-0754	PROPANE DEHYDROGENATION UNIT	TX	07/10/2015	Heaters	Natural gas or other gaseous fuels	use low sulfur fuel. Fuel total sulfur content will be less than or equal to 5 grains/100 dscf (hourly basis) and 0.2 grain total sulfur /100 dscf (annual basis)	5 GR/100 SCF hourly	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Isomar Charge Heater	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	REFORMATE HEATER	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ Use of natural gas	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	RAFFINATE HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	STRIPPER HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Fractionation Heaters	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ Combustion of pipeline-quality natural gas	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Heatersâ€™ SCR MSS and heatersâ€™ startup	REFINERY FUEL	MONITOR FUEL USAGE	162 PPMV h2s	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Greater than 100 MMBtu/lb Fractionation Heater	REFINERY FUEL	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Hydrotreating Heaters	refinery fuel	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	No limit listed	BACT-PSD	
RBLC	TX-0874	PORT ARTHUR REFINERY	TX	02/04/2020	Fractionation Heaters with less than 100 MMBtu/hr heating capacity	NATURAL GAS/REFINERY FUEL	Good combustion practices will be used to reduce CO including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. □ □ Use of natural pipeline gas or refinery fuel with sulfur concentration below 0.1 grains dry standard cubic feet.	60 PPMV h2s	BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	LINE HEATER	NATURAL GAS	Good combustions practices and pipeline natural gas. Fuel to contain less than 5 grains of sulfur per dscf	5 GR/DSCF	BACT-PSD	
RBLC	TX-0911	FORMOSA POINT COMFORT PLANT	TX	12/15/2020	HEATER	NATURAL AND PROCESS GAS	GASEOUS CLEAN FUEL	No limit listed	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	CCR Charge and Inter-stage Heaters	Refinery fuel gas and natural gas	SWEET NATURAL GAS FUEL	5 GR/DSCF h2s	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	Crude charge heaters	Refinery fuel gas and natural gas	use of sweet natural gas	60 PPMVD annual H2S	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Greater than or Equal to 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas with sulfur content not to exceed 0.20 grains per 100 dscf.	0.2 GR/DSCF	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Less than 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas with sulfur content not to exceed 0.20 grains per 100 dscf.	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Process Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of low sulfur gaseous fuel	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Steam Superheaters	NATURAL GAS OR FUEL GAS	Low sulfur content in fuel	5 GR/DSCF	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Loop SU Heaters	NATURAL GAS	good combustion practices and the use of low sulfur gaseous fuel	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Regeneration Heaters	NATURAL GAS	good combustion practices and the use of low sulphur gaseous fuel	5 GR/DSCF	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Isomerization Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Hydrocracker Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of low sulfur gaseous fuel	No limit listed	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Post Treatment Heater	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	No limit listed	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Dew Point Heater	natural gas	Pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf	No limit listed	OTHER CASE-BY-CASE	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Fuel Gas Heaters	Natural Gas	Pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf	No limit listed	BACT-PSD	
RBLC	WI-0263	WISCONSIN POWER & LIGHT - NEENAH GENERATING STATION	WI	02/15/2016	Natural gas-fired glycol heaters (processes P03 and P04)	Natural gas	Use pipeline quality natural gas	No limit listed	BACT-PSD	
RBLC	WI-0264	WPSC - WEST MARINETTE	WI	02/15/2016	Natural gas-fired pipeline heater (process P14)	Natural gas	Use pipeline quality natural gas	No limit listed	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Vacuum Tower Process Heater (P21)	Refinery Fuel Gas	Use fuels with low hydrogen sulfide	1.33 lb/hr	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Hot Oil Process Heater (P36A)	Refinery Fuel Gas	Use of fuels with low hydrogen sulfide concentrations.	1.26 lb/hr	BACT-PSD	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Water Bath Heater with a heat input rating of less than 10 MMBtu/hr	Natural Gas	Natural gas and good combustion practices	No limit listed	BACT	
Permit Application	N/A	Greensville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Use of pipeline quality natural gas	No limit listed.	BACT	
Permit Application	N/A	Greensville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Use of pipeline quality natural gas	No limit listed.	BACT	

End of table

Appendix C-6e
BACT Analysis Database Search Results: Fuel Gas Heaters, NOx
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	IL-0121	INVENERGY NELSON EXPANSION LLC	IL	09/27/2016	Fuel Heater	Natural Gas	No control listed	0.033	lb/MMBtu 3-hour average	BACT-PSD	
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Fuel Heater	Natural Gas	Low-NOx burners	0.011	lb/MMBtu	LAER	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Fuel Heater	Natural Gas	Low-NOx combustion technology	0.011	lb/MMBtu	LAER	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Dew Point Heater	Natural Gas	GOOD COMBUSTION PRACTICES AND LOW NOx BURNERS	50	LB mmcf	BACT-PSD	
RBLC	KS-0032	CHS MCPHERSON REFINERY, INC.	KS	12/14/2015	Process heaters	refinery fuel gas	No control listed	0.03	lb/MMBtu see notes	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. This unit is also required to be equipped with low-NOx burners (0.07 lb/MMBtu).	50	LB/MMSC F	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan. This unit is equipped with a low-NOx burner.	70	LB/MMSC F	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Ladle Preheaters and Dryers (P021-023, P025-026)	Natural Gas	Use of natural gas, good combustion practices and design	1.6	lb/hr	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tundish Preheaters #3 and #4 (P028 and P029)	Natural Gas	Use of natural gas, good combustion practices and design	0.95	lb/hr	BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Dew point heater 13.8		No control listed	0.011	lb/MMBtu	LAER	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Dew point heater 3.2	Natrual Gas	No control listed	0.035	lb/MMBtu	LAER	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fuel Gas Heater		No control listed	0.011	lb/MMBtu	LAER	
RBLC	*PA-0313	FIRST QUALITY TISSUE LOCK HAVEN PLT	PA	07/27/2017	Air-Makeup Units and Heaters	Natural Gas	No control listed	10.95	TPY tpy	LAER	
RBLC	*PA-0316	RENOVO ENERGY CENTER, LLC	PA	01/26/2018	Water Bath Heater	Natural Gas	No control listed	0.01	LB mmbtu	LAER	
RBLC	SC-0182	FIBER INDUSTRIES LLC	SC	10/31/2017	Process Heaters		Low NOx burners, Clean fuel (NG), good combustion practices to ensure complete combustion, and efficient boiler design. Slowly increase/decrease firing rate while maintaining a minimum of 3% O2 in stack gas, monitor opacity, minimize the heater startup and shutdown periods.	0.05	LB/MM BTU / HEATER	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Galvanizing Line Equipment (glavanizing line 2 cleaning section heaters)	natural gas	Use of Low NOX Burners and Good Combustion Practices	50	LB/MMSC F	BACT-PSD	
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Ammonia Start-Up Heater	pipeline quality natural gas	limited hours of operation and low NOx burners	1.91	lb/hr	LAER	
RBLC	TX-0754	PROPANE DEHYDROGENATION UNIT	TX	07/10/2015	Heaters	Natural gas or other gaseous fuels	Dry Low NOx burners	0.06	lb/MMBtu hourly (HHV) average	BACT-PSD	
RBLC	TX-0865	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	Process Heaters	natural gas, process gas	SCR	5	PPMVD 3% o2 3-hr avg	BACT-PSD	
RBLC	TX-0865	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	Process Heaters MSS	natural gas, process gas	SCR	0.01	lb/MMBtu 1-hr	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Isomar Charge Heater	natural gas	The heater is equipped with ultra-low NOx burners and a SCR1. □ Fuel usage is monitored continuously and exiting emission are monitored via CEMS. □ Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	0.035	lb/MMBtu hourly	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	REFORMATE HEATER	natural gas	The heater equipped with ultra-low NOx burners and a SCR. □ Fuel usage is monitored continuously and exiting emissions are monitored via CEMS.	0.035	lb/MMBtu hourly	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	RAFFINATE HEATER	NATURAL GAS	ULTRA LOW NOX BURNERS AND SCR. ☐ Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	0.035	lb/MMBtu hourly	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	STRIPPER HEATER	NATURAL GAS	The heater is equipped with ultra-low NOx burners. ☐ Tier III cost analysis determined \$140,596 per controlled. SCR is not considered economically feasible. No SCR equipped. ☐ ☐ Fuel usage is monitored continuously and exiting emission are monitored via CEMS.	0.035	lb/MMBtu	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Fractionation Heaters	NATURAL GAS	Less than 100 MMBtu/lb heaters equipped with ultra-low NOx burners. ☐ Fuel usage is monitored continuously.	No limit listed		BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Heatersâ€™™ SCR MSS and heatersâ€™™ startup	REFINERY FUEL	MONITOR FUEL USAGE	0.1	lb/MMBtu hourly	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Greater than 100 MMBtu/lb Fractionation Heater	REFINERY FUEL	Maximum heating capacity greater than 100 MMBtu/hr and required to be equipped with ultra-low NOx burners. Tier III cost analysis determined \$53,200 per controlled ton. SCR is not considered economically feasible. No SCR equipped. ☐ ☐ Good combustion practices will be used to reduce NOx including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. ☐ ☐ Fuel usage is monitored continuously and exiting emission are monitored via CEMS.	0.035	lb/MMBtu	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Hydrotreating Heaters	refinery fuel	LOW NOT BURNERS. MONITOR FUEL USAGE. ☐ Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent	0.035	lb/MMBtu	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Heaterâ€™™s SCR MSS	refinery fuel	monitor fuel use continuously	0.1	lb/MMBtu	BACT-PSD	
RBLC	TX-0874	PORT ARTHUR REFINERY	TX	02/04/2020	Fractionation Heaters with less than 100 MMBtu/hr heating capacity	NATURAL GAS/REFINERY FUEL	Less than 100 MMBtu/lb heaters equipped with ultra-low NOx burners. ☐ ☐ Fuel usage is monitored continuously.	0.024	lb/MMBtu	BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	LINE HEATER	NATURAL GAS	Low NOx burner, pipeline natural gas and good combustion practices.	0.03	lb/MMBtu	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	CCR Charge and Inter-stage Heaters	Refinery fuel gas and natural gas	low NOX burners and SCR	0.015	lb/MMBtu hourly	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	Crude charge heaters	Refinery fuel gas and natural gas	low NOX burners and SCR	0.015	lb/MMBtu 1-hr	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Greater than or Equal to 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Low NOx burners with selective catalytic reduction (SCR). CEMS required.	0.015	lb/MMBtu 1-hr	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Less than 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	LOW NOX BURNERS	0.015	lb/MMBtu 1-hr	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Process Heaters	NATURAL GAS OR FUEL GAS	low NOX burners and SCR	0.015	lb/MMBtu hourly	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Steam Superheaters	NATURAL GAS OR FUEL GAS	low NOX burners and SCR	0.015	lb/MMBtu hourly	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Loop SU Heaters	NATURAL GAS	low NOX burners	0.03	lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Regeneration Heaters	NATURAL GAS	low NOx burners	0.03	lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Isomerization Heaters	NATURAL GAS OR FUEL GAS	low NOx burners	0.03	lb/MMBtu	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Hydrocracker Heaters	NATURAL GAS OR FUEL GAS	low NOx burners	0.03	lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Post Treatment Heater	NATURAL GAS OR FUEL GAS	LOW NOX BURNERS	0.03	lb/MMBtu	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Dew Point Heater	natural gas	Ultra Low NOx burners	0.8	T/YR	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Fuel Gas Heaters	Natural Gas	: Low NOx burners	0.011	LBS/MMBTU	BACT-PSD	
RBLC	WI-0263	WISCONSIN POWER & LIGHT - NEENAH GENERATING STATION	WI	02/15/2016	Natural gas-fired glycol heaters (processes P03 and P04)	Natural gas	Good combustion practices and use natural gas	0.1	lb/MMBtu	BACT-PSD	
RBLC	WI-0264	WPSC - WEST MARINETTE	WI	02/15/2016	Natural gas-fired pipeline heater (process P14)	Natural gas	Good combustion practices, fire only pipeline quality natural gas	0.1	lb/MMBtu	BACT-PSD	
RBLC	WI-0299	WPL- RIVERSIDE ENERGY CENTER	WI	08/20/2020	Natural Gas-Fired Space and Unit Heater (P30)	Natural Gas	Only use natural gas in each heater.	0.098	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P04)	Natural Gas	Low-NOx burners, only use pipeline quality natural gas, maintain and operate according to manufacturer's recommendations.	0.049	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P05)	Natural Gas	Low-NOx burners, only combust pipeline quality natural gas, and operate and maintain the heater according to the manufacturer's recommendations.	0.049	lb/MMBtu	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Vacuum Tower Process Heater (P21)	Refinery Fuel Gas	Use ultra-low NOx burners and good combustion practices	0.03	lb/MMBtu 1-hour avg. HEAT INPUT	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Hot Oil Process Heater (P36A)	Refinery Fuel Gas	Ultra-low NOX burners and good combustion practices.	0.03	lb/MMBtu 1-hr avg. HEAT INPUT	BACT-PSD	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Water Bath Heater with a heat input rating of less than 10 MMBtu/hr	Natural Gas	Natural gas, good combustion practices, and ultra-low NOx burners	0.011	lb/MMBtu	BACT	Also lists limit of 9 ppmvd, corrected to 3% O2
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Ultra-low NOx burners and selective catalytic reduction	0.011	lb/MMBtu	BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Ultra-low NOx burners and selective catalytic reduction	0.011	lb/MMBtu	BACT	

End of table

Appendix C-6f
BACT Analysis Database Search Results: Fuel Gas Heaters, VOC
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	IN-0288	WAUPACA FOUNDRY, INC. PLANT 5	IN	06/25/2018	P51A, P54A, P51B, Hot Water Heater	Natural Gas	No limit listed	0.005	LB/MILLION FT3		BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC.- CAYUGA GENERATING STATION	IN	02/14/2025	Turbine Fuel Heaters	Natural Gas	good combustion practices	0.01	lb/MMBtu 3-hour average		BACT-PSD	
RBLC	IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	IN	03/31/2025	Dew Point Heater	Natural Gas	GOOD COMBUSTION PRACTICES	0.025	LB mmbtu		BACT-PSD	
RBLC	KS-0032	CHS MCPHERSON REFINERY, INC.	KS	12/14/2015	Process heaters	refinery fuel gas	No limit listed	0.005	lb/MMBtu see notes		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Alkali Cleaning Section Heater (EP 21-07B)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC F		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Galvanizing Line #2 Zinc Pot Preheater (EP 21-09)	Natural Gas	The permittee must develop a Good Combustion and Operating Practices (GCOP) Plan	5.5	LB/MMSC F		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Ladle Preheaters and Dryers (P021-023, P025-026)	Natural Gas	Use of natural gas, good combustion practices and design	0.09	lb/hr		BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Tundish Preheaters #3 and #4 (P028 and P029)	Natural Gas	Use of natural gas, good combustion practices and design	0.05	lb/hr		BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fuel Gas Heater		No limit listed	0.005	lb/MMBtu		LAER	
RBLC	*PA-0313	FIRST QUALITY TISSUE LOCK HAVEN PLT	PA	07/27/2017	Air-Makeup Units and Heaters	Natural Gas	No limit listed	0.6	TPY tpy		LAER	
RBLC	*PA-0316	RENOVO ENERGY CENTER, LLC	PA	01/26/2018	Water Bath Heater	Natural Gas	No limit listed	0.005	LB mmbtu		LAER	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Ancillary Equipment (ladle preheaters/dryers)	natural gas	Good Combustion Practices	No limit listed			BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Ancillary Equipment (tundish preheaters/dryers)	natural gas	Good combustion practices	No limit listed			BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Galvanizing Line Equipment (galvanizing line 2 cleaning section heaters)	natural gas	Good Combustion practices	5.5	LB/MMSC F		BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Galvanizing Line Equipment (galvanizing line/alkali cleaning section heaters)	natural gas	No limit listed	No limit listed			BACT-PSD	
RBLC	TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	TX	04/01/2015	Ammonia Start-Up Heater	pipeline quality natural gas	use of gaseous fuel	0.27	lb/hr		OTHER CASE-BY-CASE	
RBLC	TX-0865	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	Process Heaters	natural gas, process gas	Good combustion practices, clean fuel	5.5	LB/MMSC F		LAER	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Fractionation Heaters (Routine)	NATURAL GAS/FUEL GAS	Good combustion practices will be used to reduce VOC including maintaining proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	0.0054	lb/MMBtu		BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Hot Oil Heaters (Routine)	NATURAL GAS/FUEL GAS	Good combustion practices will be used to reduce VOC including maintaining proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	0.0054	lb/MMBtu		BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Tank Heaters (Routine)	NATURAL GAS	Good combustion practices will be used to reduce VOC including maintaining proper air-to-fuel ratio, necessary residence time, temperature and turbulence. □ Limited to 4,380 hour per year per tank	0.0054	lb/MMBtu		BACT-PSD	
RBLC	TX-0872	CONDENSATE SPLITTER FACILITY	TX	10/31/2019	Heater MSS â€” Fractionation Heaters	NATURAL GAS	Limiting duration and frequency of MSS. 96 annual operating hours. 12 hours per event	No limit listed			BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Isomar Charge Heater	natural gas	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed			BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	REFORMATE HEATER	natural gas	Good combustion practices will be used to reduce VOC including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	No limit listed			BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	RAFFINATE HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed			BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	STRIPPER HEATER	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence. Combustion of pipeline-quality natural gas.	No limit listed			BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Fractionation Heaters	NATURAL GAS	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence.☐ Combustion of pipeline-quality natural gas	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Greater than 100 MMBtu/lb Fractionation Heater	REFINERY FUEL	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulence.	No limit listed	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	Less than 100 MMBtu/lb Hydrotreating Heaters	refinery fuel	Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent	No limit listed	BACT-PSD	
RBLC	TX-0874	PORT ARTHUR REFINERY	TX	02/04/2020	Fractionation Heaters with less than 100 MMBtu/hr heating capacity	NATURAL GAS/REFINERY FUEL	Good combustion practices will be used to reduce CO including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent.☐ ☐ Use of natural pipeline gas or refinery fuel with sulfur concentration below 0.1 grains dry standard cubic feet.	No limit listed	BACT-PSD	
RBLC	TX-0908	NEWMAN POWER STATION	TX	08/27/2021	LINE HEATER	NATURAL GAS	Good combustions practices and pipeline natural gas	No limit listed	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	CCR Charge and Inter-stage Heaters	Refinery fuel gas and natural gas	GOOD COMBUSTION PRACTICES	No limit listed	BACT-PSD	
RBLC	TX-0914	BORGER REFINERY	TX	01/21/2021	Crude charge heaters	Refinery fuel gas and natural gas	GOOD COMBUSTION PRACTICES	No limit listed	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Greater than or Equal to 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas. Good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence.	0.0054 lb/MMBtu	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Heaters and Boiler with Firing Rates Less than 100 MMBtu/hr	NATURAL GAS OR FUEL GAS	Use of natural pipeline gas or refinery fuel gas. Good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence.	0.0054 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Process Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0054 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Fired Steam Superheaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0054 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Loop SU Heaters	NATURAL GAS	good combustion practices and the use of gaseous fuel	0.0054 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Regeneration Heaters	NATURAL GAS	good combustion practices and the use of gaseous fuel	0.0054 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Isomerization Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0054 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Hydrocracker Heaters	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0054 lb/MMBtu	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Gasoline Post Treatment Heater	NATURAL GAS OR FUEL GAS	good combustion practices and the use of gaseous fuel	0.0054 lb/MMBtu	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Dew Point Heater	natural gas	good combustion practices	No limit listed	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Fuel Gas Heaters	Natural Gas	good combustion practices, operator training, and proper emissions unit design, construction and maintenance.	0.3 T/YR 12 mo rolling avg	BACT-PSD	
RBLC	WI-0263	WISCONSIN POWER & LIGHT - NEENAH GENERATING STATION	WI	02/15/2016	Natural gas-fired glycol heaters (processes P03 and P04)	Natural gas	Good combustion practices and use natural gas	0.005 lb/MMBtu	BACT-PSD	
RBLC	WI-0266	GREEN BAY PACKAGING, INC. - SHIPPING CONTAINER DIVISION	WI	09/06/2018	Space heaters (process P53)	Natural gas	Good combustion practices, use only natural gas, equip with Low NOx burners	0.0055 lb/MMBtu	BACT-PSD	
RBLC	WI-0297	GREEN BAY PACKAGING MILL DIVISION	WI	12/10/2019	Natural Gas-Fired Space Heaters (P44)	Natural Gas	No limit listed	0.0055 lb/MMBtu	BACT-PSD	
RBLC	WI-0297	GREEN BAY PACKAGING MILL DIVISION	WI	12/10/2019	Natural Gas-Fired Space Heaters (P53)	Natural Gas	Use only natural gas.	0.0055 lb/MMBtu	BACT-PSD	
RBLC	WI-0299	WPL- RIVERSIDE ENERGY CENTER	WI	08/20/2020	Natural Gas-Fired Space and Unit Heater (P30)	Natural Gas	Only combust natural gas in each heater.	0.0054 lb/MMBtu	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit		Case-By-Case Basis	Notes
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P04)	Natural Gas	Only combust pipeline quality natural gas, operate and maintain process according to manufacturer's recommendations.	0.005	lb/MMBtu	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P05)	Natural Gas	Only combust pipeline quality natural gas and operate and maintain according to manufacturer's recommendations.	0.005	lb/MMBtu	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Vacuum Tower Process Heater (P21)	Refinery Fuel Gas	Use of ultra-low NOx burners and good combustion practices	0.27	lb/hr	BACT-PSD	
RBLC	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Hot Oil Process Heater (P36A)	Refinery Fuel Gas	Use of ultra-low NOx burners and good combustion practices	0.26	lb/hr	BACT-PSD	
RBLC	WI-0314	WISCONSIN PUBLIC SERVICE CORPORATION-WESTON PLANT	WI	03/10/2022	Space and Water Heaters (P113)	Natural Gas	Use of good combustion practices and use of pipeline quality natural gas.	0.0055	lb/MMBtu of heat input	BACT-PSD	
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Water Bath Heater with a heat input rating of less than 10 MMBtu/hr	Natural Gas	Natural gas and good combustion practices	0.010	lb/MMBtu	BACT	Also lists limit of 20 ppmvd, corrected to 3% O2
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices	0.005	lb/MMBtu	BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Good combustion practices and pipeline quality natural gas	0.005	lb/MMBtu	BACT	

End of table

Appendix C-6g
BACT Analysis Database Search Results: Fuel Gas Heaters, Sulfuric Acid Mist
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	IL-0129	CPV THREE RIVERS ENERGY CENTER	IL	07/30/2018	Fuel Heater	Natural Gas	Good combustion practice	0.014 lb/hr	BACT-PSD	
RBLC	IL-0130	JACKSON ENERGY CENTER	IL	12/31/2018	Fuel Heater	Natural Gas	Good combustion practice	0.014 POUNDS/HOUR	BACT-PSD	
RBLC	PA-0311	MOXIE FREEDOM GENERATION PLANT	PA	09/01/2015	Fuel Gas Heater		No contro listed	0.0001 lb/MMBtu	BACT-PSD	
RBLC	VA-0328	C4GT, LLC	VA	04/26/2018	Dew Point Heater	natural gas	Pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf	No limit given	BACT-PSD	
RBLC	VA-0332	CHICKAHOMINY POWER LLC	VA	06/24/2019	Three (3) Fuel Gas Heaters	Natural Gas	Pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf	No limit given	BACT-PSD	
RBLC	WI-0263	WISCONSIN POWER & LIGHT - NEENAH GENERATING STATION	WI	02/15/2016	Natural gas-fired glycol heaters (processes P03 and P04)	Natural gas	Use pipeline quality natural gas	No limit given	BACT-PSD	
RBLC	WI-0299	WPL- RIVERSIDE ENERGY CENTER	WI	08/20/2020	Natural Gas-Fired Space and Unit Heater (P30)	Natural Gas	Only combust pipeline quality natural gas in each heater.	No limit given	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P04)	Natural Gas	Only combust pipeline quality natural gas and maintain heater according to manufacturerâ€™s recommendations.	No limit given	BACT-PSD	
RBLC	WI-0300	NEMADJI TRAIL ENERGY CENTER	WI	09/01/2020	Natural Gas-Fired Heater (P05)	Natural Gas	Only combust pipeline quality natural gas and operate and maintain heater according to manufacturerâ€™s recommendations.	No limit given	BACT-PSD	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	12.0 MMBtu/hr fuel gas heater	Natural Gas	Use of pipeline quality natural gas	No limit listed.	BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	7.8 MMBtu/hr fuel gas heater	Natural Gas	Use of pipeline quality natural gas	No limit listed.	BACT	

End of table

Appendix C-7
BACT Analysis Database Search Results: Tanks, VOC
Canadys Station | Walterboro, South Carolina
April 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	FL-0368	NUCOR STEEL FLORIDA FACILITY	FL	2/14/2019	Fuel Storage Tanks - one gasoline storage tank and one diesel fuel tank	N/A	Restricted capacity	0	BACT-PSD	
BAAQMD	167.2.1	Bay Area	CA	3/3/1995	Storage tanks - fixed roof, organic liquids, <20,000 gallons	N/A	POC/NPOC: Vapor recovery system with an overall system efficiency greater than or equal to 95%	No limit tested	BACT-PSD	POC: Precursor Organic Compounds NPOC: Non Precursor Organic Compounds
BAAQMD	167.2.1	Bay Area	CA	3/3/1995	Storage tanks - fixed roof, organic liquids, <20,000 gallons	N/A	POC/NPOC: Vapor balance; or carbon adsorber; or refrigerated condenser; or BAAQMD approved equivalent; or incinerator for POC	No limit tested	Typical Technology	POC: Precursor Organic Compounds NPOC: Non Precursor Organic Compounds
BAAQMD	167.2.1	Bay Area	CA	3/3/1995	Storage tanks - fixed roof, organic liquids, greater than or equal to 20,000 gallons	N/A	POC/NPOC: Vapor recovery system with an overall system efficiency greater than or equal to 98%	No limit tested	BACT-PSD	POC: Precursor Organic Compounds NPOC: Non Precursor Organic Compounds
BAAQMD	167.2.1	Bay Area	CA	3/3/1995	Storage tanks - fixed roof, organic liquids, greater than or equal to 20,000 gallons	N/A	POC: Thermal incinerator; or carbon adsorber; or refrigerated condenser; or BAAQMD approved equivalent NPOC: Carvon adsorber; or refrigerated condenser; or BAAQMD approved equivalent	No limit tested	Typical Technology	POC: Precursor Organic Compounds NPOC: Non Precursor Organic Compounds
CARB/SC AQMD	353730	Van Waters & Rogers	CA	10/1/1999	18 organic liquid storage tanks of various sizes and capacities	N/A	Afterburner Thermal oxidizer - direct flame with assumed overall efficiency of 95% VOC control.	4 tons/yr		Vapor pressure in tanks 1-15 not to exceed that of hexane Vapor pressure in tanks P, Q, and T not to exceed that of methanol
Permit Application	N/A	Bowen Steam-Electric Generating Plant	GA	3/3/2025	Diesel storage tanks	N/A	Good maintenance practices, submerged fill pipe, insulation of tank or low solar absorption paint colors	No limit listed	BACT	
Permit Application	N/A	Greenville County Power Station	VA	11/11/2014	6,000 gallon ULSD storage tank - fixed roof with conservation vents	N/A	Use of fixed roof tanks with conservation vents	No limit listed	BACT	
Permit Application	N/A	Greenville County Power Station	VA	8/26/2015	6,000 gallon ULSD storage tank - fixed roof with conservation vents	N/A	Use of fixed roof tanks with conservation vents	No limit listed	BACT	

End of table

Appendix C-8
BACT Analysis Database Search Results: Cooling Towers, Particulate Matter
Canadys Station | Walterboro, South Carolina
July 2026

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	AK-0086	KENAI NITROGEN OPERATIONS	AK	03/26/2021	Cooling Tower	N/A	High Efficiency Drift Eliminator	0.002	% DRIFT	THREE-HOUR AVERAGE	BACT-PSD	
RBLC	AK-0086	KENAI NITROGEN OPERATIONS	AK	03/26/2021	Cooling Tower	N/A	High Efficiency Drift Eliminator	0.002	% DRIFT	THREE-HOUR AVERAGE	BACT-PSD	
RBLC	AK-0086	KENAI NITROGEN OPERATIONS	AK	03/26/2021	Cooling Tower	N/A	High Efficiency Drift Eliminator	0.002	% DRIFT	THREE-HOUR AVERAGE	BACT-PSD	
RBLC	AL-0321	KIMBERLY-CLARK MOBILE	AL	10/11/2017	803 Cooling Tower	N/A	Not specified	0.005	% DRIFT	ELIMINATION	BACT-PSD	
RBLC	AL-0321	KIMBERLY-CLARK MOBILE	AL	10/11/2017	803 Cooling Tower	N/A	Not specified	0.005	% DRIFT	ELIMINATION	BACT-PSD	
RBLC	AR-0161	SUN BIO MATERIAL COMPANY	AR	09/23/2019	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0161	SUN BIO MATERIAL COMPANY	AR	09/23/2019	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0161	SUN BIO MATERIAL COMPANY	AR	09/23/2019	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Contact Cooling Tower	N/A	Drift Eliminators□ Low TDS	0.001	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Contact Cooling Tower	N/A	Drift Eliminators□ Low TDS	0.001	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0168	BIG RIVER STEEL LLC	AR	03/17/2021	Contact Cooling Tower	N/A	Drift Eliminators□ Low TDS	0.001	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-49 Cooling Tower 4	N/A	High Efficiency Drift Eliminator	0.0005	%	EFFECIE NCY	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-49 Cooling Tower 4	N/A	Not specified	0.0005	%	EFFECIE NCY	BACT-PSD	
RBLC	AR-0171	NUCOR STEEL ARKANSAS	AR	02/14/2019	SN-49 Cooling Tower 4	N/A	High Efficiency Drift Eliminator	0.0001	%	EFFECIE NCY	BACT-PSD	
RBLC	AR-0172	NUCOR STEEL ARKANSAS	AR	09/01/2021	SN-212 Cooling Tower	N/A	High efficiency Drift/mist eliminator	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0172	NUCOR STEEL ARKANSAS	AR	09/01/2021	SN-212 Cooling Tower	N/A	High efficiency Drift/mist eliminator	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0172	NUCOR STEEL ARKANSAS	AR	09/01/2021	SN-212 Cooling Tower	N/A	High efficiency Drift/mist eliminator	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	DRIFT	LOSS	BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005			BACT-PSD	
RBLC	AR-0173	BIG RIVER STEEL LLC	AR	01/31/2022	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	DRIFT	LOSS	BACT-PSD	
RBLC	AR-0177	NUCOR STEEL ARKANSAS	AR	11/21/2022	Cooling tower, SN-241	N/A	Mist Eliminator	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0177	NUCOR STEEL ARKANSAS	AR	11/21/2022	Cooling tower, SN-241	N/A	Mist Eliminator	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0177	NUCOR STEEL ARKANSAS	AR	11/21/2022	Cooling tower, SN-241	N/A	mist eliminator	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Cooling Towers	N/A	Drift eliminators and low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Cooling Towers	N/A	Drift eliminators and low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0180	HYBAR LLC	AR	04/28/2023	Cooling Towers	N/A	Drift eliminators and low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0183	BIG RIVER STEEL LLC	AR	02/08/2024	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0183	BIG RIVER STEEL LLC	AR	02/08/2024	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0183	BIG RIVER STEEL LLC	AR	02/08/2024	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0184	EXPLORATORY VENTURES LLC	AR	03/05/2024	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0184	EXPLORATORY VENTURES LLC	AR	03/05/2024	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	AR-0184	EXPLORATORY VENTURES LLC	AR	03/05/2024	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	*AR-0191	HYBAR	AR	10/02/2025	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	*AR-0191	HYBAR	AR	10/02/2025	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	LB/MMBT U		BACT-PSD	
RBLC	*AR-0191	HYBAR	AR	10/02/2025	Cooling Towers	N/A	Drift Eliminators□ Low TDS	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	*AR-0192	GREEN BAY PACKAGING	AR	10/26/2023	Cooling Towers	N/A	Mist Eliminator	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	*AR-0192	GREEN BAY PACKAGING	AR	10/26/2023	Cooling Towers	N/A	Mist Eliminator	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	*AR-0192	GREEN BAY PACKAGING	AR	10/26/2023	Cooling Towers	N/A	Mist Eliminator	0.0005	% DRIFT	LOSS	BACT-PSD	
RBLC	FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	FL	03/09/2016	Mechanical draft cooling tower	N/A	Must have certified drift rate no more than 0.0005%.	Not specified			BACT-PSD	
RBLC	FL-0366	LIGNOTECH FLORIDA	FL	10/18/2016	Cooling tower	N/A	Drift/mist eliminators with design drift rate of 0.0006%.	Not specified			BACT-PSD	
RBLC	FL-0366	LIGNOTECH FLORIDA	FL	10/18/2016	Cooling tower	N/A	Drift/mist eliminators with design drift rate of 0.0006%.	Not specified			BACT-PSD	
RBLC	FL-0366	LIGNOTECH FLORIDA	FL	10/18/2016	Cooling tower	N/A	Drift/mist eliminators with design drift rate of 0.0006%.	Not specified			BACT-PSD	
RBLC	FL-0368	NUCOR STEEL FLORIDA FACILITY	FL	02/14/2019	Two Cooling Towers	N/A	Drift eliminators	0.001	% DRIFT	RATE	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	*IA-0117	SHELL ROCK SOY PROCESSING	IA	03/17/2021	Cooling Tower	N/A	Drift Eliminator	0.26	LB/HR	PM, PM10 AND PM2.5	BACT-PSD	
RBLC	IL-0126	NUCOR STEEL KANKAKEE, INC.	IL	11/01/2018	Cooling Towers	N/A	Drift eliminators	0.001	WEIGHT PERCENT		BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Cooling Tower	N/A	High efficiency drift eliminators	0.0005	PERCENT	DRIFT RATE	BACT-PSD	
RBLC	IL-0134	CRONUS CHEMICALS	IL	12/21/2023	Cooling Tower	N/A	High efficiency drift eliminators	0.0005	PERCENT	DRIFT RATE	BACT-PSD	
RBLC	IN-0255	NUCOR STEEL	IN	09/21/2016	HOT MILL CONTACT COOLING TOWER	N/A	DRIFT ELIMINATORS	0.001	% DRIFT		BACT-PSD	
RBLC	IN-0255	NUCOR STEEL	IN	09/21/2016	HOT MILL CONTACT COOLING TOWER	N/A	DRIFT ELIMINATORS	0.001	% DRIFT		BACT-PSD	
RBLC	IN-0255	NUCOR STEEL	IN	09/21/2016	HOT MILL CONTACT COOLING TOWER	N/A	DRIFT ELIMINATORS	0.001	% DRIFT		BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	EIGHTEEN CELL COOLING TOWER (EU-010)	N/A	HIGH EFFICIENCY DRIFT ELIMINATORS	2000	MG/L	AVG ON A MONTHLY BASIS	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	EIGHTEEN CELL COOLING TOWER (EU-010)	N/A	HIGH EFFICIENCY DRIFT ELIMINATORS	2000	MG/L	AVG. ON A MONTHLY BASIS	BACT-PSD	
RBLC	IN-0263	MIDWEST FERTILIZER COMPANY LLC	IN	03/23/2017	EIGHTEEN CELL COOLING TOWER (EU-010)	N/A	HIGH EFFICIENCY DRIFT ELIMINATORS	2000	MG/L	AVG. ON A MONTHLY BASIS	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Cooling tower EU-6001	N/A	drift eliminator	2395	MG/L	TDS IN CIRCULATING WATER	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Cooling tower EU-6001	N/A	drift eliminator	2395	MG/L	TDS IN CIRCULATING WATER	BACT-PSD	
RBLC	IN-0317	RIVERVIEW ENERGY CORPORATION	IN	06/11/2019	Cooling tower EU-6001	N/A	drift eliminator	2395	MG/L	TDS IN CIRCULATING WATER	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	ten cell evaporative cooling tower EU-010	N/A	Not specified	2000	MG/L	AVERAGED ON A MONTHLY BASIS	BACT-PSD	
RBLC	IN-0324	MIDWEST FERTILIZER COMPANY LLC	IN	05/06/2022	ten cell evaporative cooling tower EU-010	N/A	Not specified	2000	MG/L	AVERAGED ON A MONTHLY BASIS	BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	laminar cooling tower (contact type)	N/A	high efficiency drift eliminators	0.005	DRIFT LOSS RATE (%)		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	laminar cooling tower (contact type)	N/A	high efficiency drift eliminators	0.005	DRIFT LOSS RATE (%)		BACT-PSD	
RBLC	IN-0359	NUCOR STEEL	IN	03/30/2023	laminar cooling tower (contact type)	N/A	high efficiency drift eliminators	0.005	DRIFT LOSS RATE (%)		BACT-PSD	
RBLC	IN-0382	DUKE ENERGY INDIANA, INC. - CAYUGA GENERATING STATION	IN	02/14/2025	Cooling Towers	N/A	drift eliminator system	Not specified			BACT-PSD	
RBLC	KS-0040	JOHNS MANVILLE AT MCPHERSON	KS	12/03/2019	Cooling Towers	N/A	Drift Rate Control	0.001	PERCENT	DRIFT RATE FROM EACH TOWERS	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-01 - Melt Shop ICW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.36	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-01 - Melt Shop ICW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.27	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-01 - Melt Shop ICW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.0008	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-02 - Melt Shop DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.04	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-02 - Melt Shop DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.03	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-02 - Melt Shop DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.0001	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-03 - Rolling Mill ICW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.06	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-03 - Rolling Mill ICW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.04	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-03 - Rolling Mill ICW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.0001	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-04 - Rolling Mill DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.17	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-04 - Rolling Mill DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.12	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-04 - Rolling Mill DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.0004	LB/HR		BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-05 - Rolling Mill Quench/ACC Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.78	LB/HR		BACT-PSD	

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RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-05 - Rolling Mill Quench/ACC Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.54 LB/HR	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-05 - Rolling Mill Quench/ACC Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.0017 LB/HR	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-06 - Light Plate Quench DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.06 LB/HR	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-06 - Light Plate Quench DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.04 LB/HR	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-06 - Light Plate Quench DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.0001 LB/HR	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-07 - Heavy Plate Quench DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.02 LB/HR	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-07 - Heavy Plate Quench DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.02 LB/HR	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-07 - Heavy Plate Quench DCW Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.0001 LB/HR	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-08 - Air Separation Plant Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.1 LB/HR	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-08 - Air Separation Plant Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.08 LB/HR	BACT-PSD	
RBLC	KY-0110	NUCOR STEEL BRANDENBURG	KY	07/23/2020	EP 09-08 - Air Separation Plant Cooling Tower	N/A	High Efficiency Mist Eliminator. The mist eliminator drift loss shall be maintained at 0.001% or less to total gpm.	0.0002 LB/HR	BACT-PSD	
RBLC	KY-0112	WESTLAKE VINYL, INC. - PVC PLANT	KY	11/13/2020	Cooling Tower [EU 31]	N/A	1. State-of-the-art, high-efficiency drift eliminators with a drift rate specified at 0.0005% percent of the circulating water rate; □ 2. Monitoring and limiting total dissolved solids in the circulating water; and □ 3. Proper equipment operation, and maintenance	0.125 LBS/HOUR MONTHLY BASIS	BACT-PSD	
RBLC	KY-0112	WESTLAKE VINYL, INC. - PVC PLANT	KY	11/13/2020	Cooling Tower [EU 31]	N/A	1. State-of-the-art, high-efficiency drift eliminators with a drift rate specified at 0.0005% percent of the circulating water rate; □ 2. Monitoring and limiting total dissolved solids in the circulating water; and □ 3. Proper equipment operation, and maintenance	0.079 LBS/HOUR MONTHLY BASIS	BACT-PSD	
RBLC	KY-0112	WESTLAKE VINYL, INC. - PVC PLANT	KY	11/13/2020	Cooling Tower [EU 31]	N/A	1. State-of-the-art, high-efficiency drift eliminators with a drift rate specified at 0.0005% percent of the circulating water rate; □ 2. Monitoring and limiting total dissolved solids in the circulating water; and □ 3. Proper equipment operation, and maintenance	0.0003 LBS/HOUR MONTHLY BASIS	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Laminar Cooling Tower Hot Mill Cells (EP 03-09)	N/A	Mist Eliminator, 0.001% drift loss	0.27 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Laminar Cooling Tower Hot Mill Cells (EP 03-09)	N/A	Mist Eliminator, 0.001% drift loss	0.19 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Laminar Cooling Tower Hot Mill Cells (EP 03-09)	N/A	Mist Eliminator, 0.001% drift loss	0.0006 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Direct Cooling Tower-Caster & Roughing Mill Cells (EP 03-10)	N/A	Mist Eliminator, 0.001% drift loss	0.17 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Direct Cooling Tower-Caster & Roughing Mill Cells (EP 03-10)	N/A	Mist Eliminator, 0.001% drift loss	0.12 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Direct Cooling Tower-Caster & Roughing Mill Cells (EP 03-10)	N/A	Mist Eliminator, 0.001% drift loss	0.0004 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Melt Shop #2 Cooling Tower (indirect) (EP 03-11)	N/A	Mist Eliminator, 0.001% drift loss	0.39 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Melt Shop #2 Cooling Tower (indirect) (EP 03-11)	N/A	Mist Eliminator, 0.001% drift loss	0.29 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Melt Shop #2 Cooling Tower (indirect) (EP 03-11)	N/A	Mist Eliminator, 0.001% drift loss	0.0008 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Cooling Tower (EP 03-12)	N/A	Mist Eliminator, 0.001% drift loss	0.14 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Cooling Tower (EP 03-12)	N/A	Mist Eliminator, 0.001% drift loss	0.094 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Cold Mill Cooling Tower (EP 03-12)	N/A	Mist Eliminator, 0.001% drift loss	0.0003 LB/HR	BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Air Separation Plant Cooling Tower (EP 03-13)	N/A	Mist Eliminator, 0.001% drift loss	0.08 LB/HR	BACT-PSD	

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RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Air Separation Plant Cooling Tower (EP 03-13)	N/A	Mist Eliminator, 0.001% drift loss	0.07	LB/HR		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	Air Separation Plant Cooling Tower (EP 03-13)	N/A	Mist Eliminator, 0.001% drift loss	0.0002	LB/HR		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	DCW Auxiliary Cooling Tower (EP 03-14)	N/A	Mist Eliminator, 0.001% drift loss	0.06	LB/HR		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	DCW Auxiliary Cooling Tower (EP 03-14)	N/A	Mist Eliminator, 0.001% drift loss	0.05	LB/HR		BACT-PSD	
RBLC	KY-0115	NUCOR STEEL GALLATIN, LLC	KY	04/19/2021	DCW Auxiliary Cooling Tower (EP 03-14)	N/A	Mist Eliminator, 0.001% drift loss	0.0001	LB/HR		BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 043 - Cooling Tower #1	N/A	Mist Eliminator (0.001% drift loss), Total Dissolved Solids (TDS) concentration limit of 1000 ppm	0.013	LB/HR	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 043 - Cooling Tower #1	N/A	Mist Eliminator (0.001% drift loss), Total Dissolved Solids (TDS) concentration limit of 1000 ppm	0.006	LB/HR	MONTHLY AVERAGE	BACT-PSD	
RBLC	KY-0116	NOVELIS CORPORATION - GUTHRIE	KY	07/25/2022	EU 043 - Cooling Tower #1	N/A	Mist Eliminator (0.001% drift loss), Total Dissolved Solids (TDS) concentration limit of 1000 ppm	Not specified			BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Cooling Towers	N/A	Drift eliminators	0.0005	%	THREE ONE-HOUR TEST AVERAGE	BACT-PSD	
RBLC	LA-0305	LAKE CHARLES METHANOL FACILITY	LA	06/30/2016	Cooling Towers	N/A	Drift eliminators	0.0005	%	THREE ONE-HOUR TEST AVERAGE	BACT-PSD	
RBLC	*LA-0306	TOPCHEM POLLOCK, LLC	LA	12/20/2016	Cooling Tower CT-16-1 (EQT032)	N/A	High Efficiency Drift Eliminator	0.001	LB/H	HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	ECT-14 - Ecomamine Cooling Tower (EQT0018)	N/A	High efficiency drift eliminators	0.01	TPY		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	ECT-14 - Ecomamine Cooling Tower (EQT0018)	N/A	High efficiency drift eliminators	0.44	TPY		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	CT-13 - Cooling Tower (EQT0007)	N/A	High efficiency drift eliminators	0.01	LB/HR		BACT-PSD	
RBLC	*LA-0312	ST. JAMES METHANOL PLANT	LA	06/30/2017	CT-13 - Cooling Tower (EQT0007)	N/A	High efficiency drift eliminators	0.96	LB/HR		BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Cooling Tower 1	N/A	High efficiency drift eliminators	1.24	LB/H	HOURLY MAXIMUM	BACT-PSD	
RBLC	LA-0313	ST. CHARLES POWER STATION	LA	08/31/2016	SCPS Cooling Tower 1	N/A	High efficiency drift eliminators	1.24	LB/H	HOURLY MAXIMUM	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	cooling towers - 007	N/A	drift eliminators	0.0005	%	DRIFT RATE	BACT-PSD	
RBLC	LA-0314	INDORAMA LAKE CHARLES FACILITY	LA	08/03/2016	cooling towers - 007	N/A	drift eliminators	0.0005	%	DRIFT RATE	BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	cooling towers (I-CT-621, II-CT-621)	N/A	Drift eliminators	0.001	%	DRIFT RATE	BACT-PSD	
RBLC	LA-0317	METHANEX - GEISMAR METHANOL PLANT	LA	12/22/2016	cooling towers (I-CT-621, II-CT-621)	N/A	drift eliminators	0.001	%	DIRFT RATE	BACT-PSD	
RBLC	LA-0318	FLOPAM FACILITY	LA	01/07/2016	cooling towers	N/A	integrated drift eliminators	Not specified			BACT-PSD	
RBLC	LA-0328	PLAQUEMINES PLANT 1	LA	05/02/2018	Cooling Tower 2 (P-35)	N/A	Drift Eliminator	0.0005	%		BACT-PSD	
RBLC	LA-0328	PLAQUEMINES PLANT 1	LA	05/02/2018	Cooling Tower 2 (P-35)	N/A	Drift Eliminator	0.0005	%		BACT-PSD	
RBLC	LA-0339	SHINTECH PLAQUEMINE PLANT 3	LA	01/19/2021	Cooling Tower (EQT0452)	N/A	Drift eliminator	0.0005	% DRIFT		BACT-PSD	
RBLC	LA-0339	SHINTECH PLAQUEMINE PLANT 3	LA	01/19/2021	Cooling Tower (EQT0452)	N/A	drift eliminator	0.0005	% DRIFT		BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	Cooling Tower	N/A	Using drift eliminators and periodically monitoring cooling water as specified by 40 CFR 63 Subpart CC	Not specified			BACT-PSD	
RBLC	LA-0356	GARYVILLE REFINERY	LA	09/27/2019	Cooling Tower	N/A	Using drift eliminators and periodically monitoring cooling water as specified by 40 CFR 63 Subpart CC	Not specified			BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Cooling Towers	N/A	High efficiency drift eliminators and low TDS cooling water.	0.001	%		BACT-PSD	
RBLC	LA-0364	FG LA COMPLEX	LA	01/06/2020	Cooling Towers	N/A	High efficiency drift eliminators and low TDS cooling water.	0.001	%		BACT-PSD	
RBLC	LA-0367	TITANIUM DIOXIDE PLANT	LA	11/17/2020	Cooling Tower	N/A	High efficiency drift eliminators	0.0005	%		BACT-PSD	
RBLC	LA-0367	TITANIUM DIOXIDE PLANT	LA	11/17/2020	Cooling Tower	N/A	High efficiency drift eliminators	0.0005	%		BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	C/A Cooling Tower	N/A	Good design, maintenance and mist eliminators.	0.08	LB/MM GAL		BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	C/A Cooling Tower	N/A	Good design, maintenance and mist eliminators.	0.08	LB/MM GAL		BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	VCM Unit Emergency Cooling Water Pumps	N/A	Good combustion practices/gaseous fuel burning.	0.2	G/KW-HR		BACT-PSD	
RBLC	LA-0379	SHINTECH PLAQUEMINES PLANT 1	LA	05/04/2021	VCM Unit Emergency Cooling Water Pumps	N/A	Good combustion practices/gaseous fuel burning.	0.2	G/KW-HR		BACT-PSD	
RBLC	*LA-0381	EUEG-5 UNIT - GEISMAR PLANT	LA	12/12/2019	Cooling Tower 6-19 (EQT0907)	N/A	Drift Eliminators	0.0005	PERCENT		BACT-PSD	
RBLC	*LA-0381	EUEG-5 UNIT - GEISMAR PLANT	LA	12/12/2019	Cooling Tower 6-19 (EQT0907)	N/A	Drift Eliminator	0.0005	PERCENT		BACT-PSD	
RBLC	LA-0382	BIG LAKE FUELS METHANOL PLANT	LA	04/25/2019	Cooling Towers (EQT0033, EQT0046, EQT0047)	N/A	High efficiency mist eliminators	0.0005	PERCENT		BACT-PSD	

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RBLC	LA-0382	BIG LAKE FUELS METHANOL PLANT	LA	04/25/2019	Cooling Towers (EQT0033, EQT0046, EQT0047)	N/A	High efficiency drift eliminators	0.0005 PERCENT	BACT-PSD	
RBLC	LA-0385	GARYVILLE REFINERY	LA	02/11/2021	Cooling Towers	N/A	High Efficiency Drift Eliminators	Not specified	BACT-PSD	
RBLC	LA-0385	GARYVILLE REFINERY	LA	02/11/2021	Cooling Towers	N/A	High Efficiency Drift Eliminators	Not specified	BACT-PSD	
RBLC	LA-0389	SHINTECH PLAQUEMINE PLANT 3	LA	10/20/2022	3C-4 - C/A Cooling Tower	N/A	Drift Eliminator	0.14 LB/HR	BACT-PSD	
RBLC	LA-0389	SHINTECH PLAQUEMINE PLANT 3	LA	10/20/2022	3C-4 - C/A Cooling Tower	N/A	Drift Eliminator	0.14 LB/HR	BACT-PSD	
RBLC	LA-0389	SHINTECH PLAQUEMINE PLANT 3	LA	10/20/2022	3M-7 - VCM Cooling Tower 1	N/A	Drift Eliminator	0.21 LB/HR	BACT-PSD	
RBLC	LA-0389	SHINTECH PLAQUEMINE PLANT 3	LA	10/20/2022	3M-7 - VCM Cooling Tower 1	N/A	Drift Eliminator	0.36 LB/HR	BACT-PSD	
RBLC	LA-0389	SHINTECH PLAQUEMINE PLANT 3	LA	10/20/2022	3M-18 - VCM Cooling Tower 2	N/A	Drift Eliminator	0.05 LB/HR	BACT-PSD	
RBLC	LA-0389	SHINTECH PLAQUEMINE PLANT 3	LA	10/20/2022	3M-18 - VCM Cooling Tower 2	N/A	Drift Eliminator	0.08 LB/HR	BACT-PSD	
RBLC	LA-0389	SHINTECH PLAQUEMINE PLANT 3	LA	10/20/2022	2P-15 - Cooling Tower	N/A	Drift Eliminator	0.11 LB/HR	BACT-PSD	
RBLC	LA-0389	SHINTECH PLAQUEMINE PLANT 3	LA	10/20/2022	2P-15 - Cooling Tower	N/A	Drift Eliminator	0.19 LB/HR	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Cooling Tower	N/A	High-efficiency drift eliminators.	0.0005 %	BACT-PSD	
RBLC	LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	LA	06/03/2022	Cooling Tower	N/A	High-efficiency drift eliminators.	0.0005 %	BACT-PSD	
RBLC	*LA-0402	DESTREHAN OIL PROCESSING FACILITY	LA	12/13/2023	HLK40 - Cooling Towers (EQT0095)	N/A	Drift elimination system	0.06 LB/H HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0402	DESTREHAN OIL PROCESSING FACILITY	LA	12/13/2023	HLK40 - Cooling Towers (EQT0095)	N/A	Drift elimination system	0.02 LB/H HOURLY MAXIMUM	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-4 - C/A Cooling Tower	N/A	High efficiency drift eliminators	0.14 HR/YR	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4C-4 - C/A Cooling Tower	N/A	High efficiency drift eliminators	0.23 LB/HR	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-7 - VCM Cooling Tower 1	N/A	Drift Eliminators	0.36 LB/HR	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-7 - VCM Cooling Tower 1	N/A	Drift eliminators	0.21 LB/HR	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-18 - VCM Cooling Tower 2	N/A	Drift eliminators	0.05 LB/HR	BACT-PSD	
RBLC	*LA-0403	SHINTECH PLAQUEMINE PLANT 4	LA	12/16/2024	4M-18 - VCM Cooling Tower 2	N/A	Drift eliminators	0.08 LB/HR	BACT-PSD	
RBLC	*LA-0405	SHINTECH LOUISIANA, LLC - PLAQUEMINE ETHYLENE PLANT 2	LA	12/16/2024	Cooling Tower	N/A	Drift eliminator.	0.0005	BACT-PSD	
RBLC	*LA-0405	SHINTECH LOUISIANA, LLC - PLAQUEMINE ETHYLENE PLANT 2	LA	12/16/2024	Cooling Tower	N/A	Drift eliminator.	0.0005	BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	Cooling Tower (EQT0010)	N/A	Drift eliminators	0.0005 % DRIFT RATE	BACT-PSD	
RBLC	*LA-0406	MCA GEIMAR SITE	LA	07/24/2024	Cooling Tower (EQT0010)	N/A	Drift eliminators	0.0005 % DRIFT RATE	BACT-PSD	
RBLC	*LA-0407	SHINTECH PLAQUEMINE PLANT 2	LA	06/03/2025	2C-4 Cooling Tower	N/A	Design and operate the cooling towers using mist eliminators to meet emission limits.	0.3 LB/HR	BACT-PSD	
RBLC	*LA-0407	SHINTECH PLAQUEMINE PLANT 2	LA	06/03/2025	2M-7 Cooling Tower	N/A	Design and operate the cooling tower using mist eliminators to meet the emission limits.	0.62 LB/HR	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUCOOLTWR (Cooling Tower--Wet Mechanical Draft)	N/A	Mist/drift eliminators	2.37 T/YR 12-MONTH ROLLING TIME PERIOD	BACT-PSD	
RBLC	MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	MI	12/05/2016	EUCOOLTWR (Cooling Tower--Wet Mechanical Draft)	N/A	Mist/drift eliminators	2.37 T/YR 12-MONTH ROLLING TIME PERIOD	BACT-PSD	
RBLC	MI-0427	FILER CITY STATION	MI	11/17/2017	EUCOOLTWR (Cooling Tower--Wet Mechanical Draft)	N/A	Mist/Drift Eliminators	0.0006 % VENDOR-CERTIF. MAX. DRIFT RATE	BACT-PSD	
RBLC	MI-0427	FILER CITY STATION	MI	11/17/2017	EUCOOLTWR (Cooling Tower--Wet Mechanical Draft)	N/A	Mist/Drift Eliminators	0.0006 % VENDOR-CERTIFIED MAX. DRIFT RATE	BACT-PSD	
RBLC	MI-0427	FILER CITY STATION	MI	11/17/2017	EUCOOLTWR (Cooling Tower--Wet Mechanical Draft)	N/A	Mist/Drift Eliminators	0.0006 % VENDOR-CERTIF. MAX. DRIFT RATE	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCOOLTOWER (North Plant): Cooling Tower	N/A	High efficiency drift/mist eliminators	5.59 T/YR 12-MONTH ROLLING TIME PERIOD	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCOOLTOWER (North Plant): Cooling Tower	N/A	High efficiency drift/mist eliminators	2.85 T/YR 12-MONTH ROLLING TIME PERIOD	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCOOLTOWER (North Plant): Cooling Tower	N/A	High efficiency drift/mist eliminators	2.85 T/YR 12-MONTH ROLLING TIME PERIOD	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCOOLTOWER (South Plant): Cooling Tower	N/A	High efficiency drift/mist eliminators.	5.59 T/YR 12-MO ROLLING TIME PERIOD	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCOOLTOWER (South Plant): Cooling Tower	N/A	High efficiency drift/mist eliminators.	2.85 T/YR 12-MO ROLLING TIME PERIOD	BACT-PSD	
RBLC	MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	MI	06/29/2018	EUCOOLTOWER (South Plant): Cooling Tower	N/A	High efficiency drift/mist eliminators.	2.85 T/YR 12-MO ROLLING TIME PERIOD	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUCOOLINGTWR: Cooling Tower	N/A	High efficiency drift/mist eliminators	4.03 LB/H HOURLY	BACT-PSD	
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUCOOLINGTWR: Cooling Tower	N/A	High efficiency drift/mist eliminators	0.48 LB/H HOURLY	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	MI	07/16/2018	EUCOOLINGTWR: Cooling Tower	N/A	High efficiency drift/mist eliminators	0.48	LB/H	HOURLY	BACT-PSD	
RBLC	MI-0437	KNAUF INSULATION, INC.--ALBION FACILITY	MI	10/10/2018	EU-COOLTOWER (Cooling tower)	N/A	Drift eliminators	0.39	T/YR	12-MO. ROLLING TIME PERIOD	BACT-PSD	
RBLC	MI-0437	KNAUF INSULATION, INC.--ALBION FACILITY	MI	10/10/2018	EU-COOLTOWER (Cooling tower)	N/A	Drift eliminators	0.39	T/YR	12-MO. ROLLING TIME PERIOD	BACT-PSD	
RBLC	MI-0437	KNAUF INSULATION, INC.--ALBION FACILITY	MI	10/10/2018	EU-COOLTOWER (Cooling tower)	N/A	Drift eliminators	0.39	T/YR	12-MO. ROLLING TIME PERIOD	BACT-PSD	
RBLC	MN-0094	CHS OILSEED PROCESSING - FAIRMONT	MN	08/22/2019	Cooling Towers	N/A	Not specified	0.005	PERCENT	DRIFT LOSS	N/A	
RBLC	NE-0064	NORFOLK CRUSH, LLC	NE	11/21/2022	Cooling Tower	N/A	There is a drift loss design specification and a TDS concentration limit.	0.0005	%	DRIFT LOSS	BACT-PSD	
RBLC	NE-0068	AG PROCESSING INC - DAVID CITY	NE	06/27/2023	Cooling Tower 1	N/A	There is a drift loss design specification with the mist eliminator (CE-8000) and a TDS concentration limit.	0.0005	%		BACT-PSD	
RBLC	NE-0068	AG PROCESSING INC - DAVID CITY	NE	06/27/2023	Cooling Tower 2	N/A	There is a drift loss design specification with the mist eliminator (CE-8001) and a TDS concentration limit.	0.0005	%		BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Cooling Tower	N/A	High Efficiency Drift Eliminators	0.685	LB/H		BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Cooling Tower	N/A	High Efficiency Drift Eliminators	0.535	LB/H		BACT-PSD	
RBLC	NJ-0085	MIDDLESEX ENERGY CENTER, LLC	NJ	07/19/2016	Cooling Tower	N/A	High Efficiency Drift Eliminators	0.223			BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Cooling Towers (2 identical, P005 and P006)	N/A	High efficiency drift eliminators and minimize total dissolved solid (TDS)	1.33	LB/H		BACT-PSD	
RBLC	OH-0367	SOUTH FIELD ENERGY LLC	OH	09/23/2016	Cooling Towers (2 identical, P005 and P006)	N/A	High efficiency drift eliminators and minimize total dissolved solid (TDS)	0.534	LB/H		BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Cooling Towers #1 & #2 (P010 & P011)	N/A	drift eliminators with a maximum drift rate specification of 0.0005 percent or less and total dissolved solids (TDS) concentration of the cooling water less than or equal to 5,000 milligrams per liter (mg/l)	0.3	LB/H		BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Cooling Towers #1 & #2 (P010 & P011)	N/A	drift eliminators with a maximum drift rate specification of 0.0005 percent or less and total dissolved solids (TDS) concentration of the cooling water less than or equal to 5,000 milligrams per liter (mg/l)	0.0018	LB/H		BACT-PSD	
RBLC	OH-0368	PALLAS NITROGEN LLC	OH	04/19/2017	Wastewater Treatment Plant Cooling Water Tower (P012)	N/A	drift eliminators with a maximum drift rate specification of 0.0005 percent or less and total dissolved solids (TDS) concentration of the cooling water less than or equal to 50,000 milligrams per liter (mg/l)	5	X10-4 LB/H		BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Wet Cooling Tower (P005)	N/A	drift eliminator with a maximum drift rate of 0.0005% and total dissolved solids (TDS) concentration of the cooling water less than or equal to 3,500 milligrams per liter (mg/l).	1.36	LB/H		BACT-PSD	
RBLC	OH-0370	TRUMBULL ENERGY CENTER	OH	09/07/2017	Wet Cooling Tower (P005)	N/A	drift eliminator with a maximum drift rate of 0.0005% and total dissolved solids (TDS) concentration of the cooling water less than or equal to 3,500 milligrams per liter (mg/l).	0.54	LB/H		BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Wet Cooling Tower (P005)	N/A	drift eliminator with a maximum drift rate of 0.0005% and total dissolved solids (TDS) concentration of the cooling water less than or equal to 3,500 milligrams per liter (mg/l).	0.93	LB/H		BACT-PSD	
RBLC	OH-0372	OREGON ENERGY CENTER	OH	09/27/2017	Wet Cooling Tower (P005)	N/A	drift eliminator with a maximum drift rate of 0.0005% and total dissolved solids (TDS) concentration of the cooling water less than or equal to 3,500 milligrams per liter (mg/l).	0.36	LB/H		BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Wet Mechanical Draft Cooling Tower (P003)	N/A	High efficiency drift eliminator designed to achieve a 0.0005% drift rate and total dissolved solids (TDS) content not to exceed 5,000 mg/l.	6.58	T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Wet Mechanical Draft Cooling Tower (P003)	N/A	High efficiency drift eliminator designed to achieve a 0.0005% drift rate and total dissolved solids (TDS) content not to exceed 5,000 mg/l.	4.24	T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	OH	11/07/2017	Wet Mechanical Draft Cooling Tower (P003)	N/A	High efficiency drift eliminator designed to achieve a 0.0005% drift rate and total dissolved solids (TDS) content not to exceed 5,000 mg/l.	1.58	T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Wet Cooling Tower (P005)	N/A	drift eliminator with a maximum drift rate of 0.0005% and total dissolved solids (TDS) concentration of the cooling water less than or equal to 1,100 parts per million by weight (ppmw).	0.02	LB/H		BACT-PSD	
RBLC	OH-0376	IRONUNITS LLC - TOLEDO HBI	OH	02/09/2018	Wet Cooling Tower (P005)	N/A	drift eliminator with a maximum drift rate of 0.0005% and total dissolved solids (TDS) concentration of the cooling water less than or equal to 1,100 parts per million by weight (ppmw).	0.01	LB/H		BACT-PSD	
RBLC	OH-0378	PTTGA PETROCHEMICAL COMPLEX	OH	12/21/2018	Cooling Tower (P011)	N/A	High efficiency drift eliminator designed to achieve a 0.0005% drift rate and maintenance of a total dissolved solids (TDS) content not to exceed 2,000 ppm in the circulating cooling water based on a rolling 12-month average.	5.07	T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Cooling Tower (P011)	N/A	High efficiency drift eliminator designed to achieve a 0.0005% drift rate and maintenance of a total dissolved solids (TDS) content not to exceed 2,000 ppm in the circulating cooling water based on a rolling 12-month average.	3.22	T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0378	PTTGCA PETROCHEMICAL COMPLEX	OH	12/21/2018	Cooling Tower (P011)	N/A	High efficiency drift eliminator designed to achieve a 0.0005% drift rate and maintenance of a total dissolved solids (TDS) content not to exceed 2,000 ppm in the circulating cooling water based on a rolling 12-month average.	0.01	T/YR	PER ROLLING 12 MONTH PERIOD	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Contact Cooling Towers Melt Shop 2 (P027)	N/A	i. use of drift eliminator(s) designed to achieve a 0.001% drift rate; ☐ ii. maintenance of a total dissolved solids (TDS) content (for the 5 individual cooling towers) not to exceed the ppm in the circulating cooling water based on a rolling 12-month average as indicated in the table below: ☐ Cooling Tower - TDS (ppm) ☐ Meltshop 2 Cooling Tower - 1000 ☐ Caster Mold Water Cooling Tower - 800 ☐ Tunnel Furnace Cooling Tower - 800 ☐ Caster Non-Contact 2 Cooling Tower - 800 ☐ Caster Contact 2 Cooling Tower - 1400	1.17	T/YR	PER ROLLING, 12-MONTH PERIOD.	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Contact Cooling Towers Melt Shop 2 (P027)	N/A	i. use of drift eliminator(s) designed to achieve a 0.001% drift rate; ☐ ii. maintenance of a total dissolved solids (TDS) content (for the 5 individual cooling towers) not to exceed the ppm in the circulating cooling water based on a rolling 12-month average as indicated in the table below: ☐ Cooling Tower - TDS (ppm) ☐ Meltshop 2 Cooling Tower - 1000 ☐ Caster Mold Water Cooling Tower - 800 ☐ Tunnel Furnace Cooling Tower - 800 ☐ Caster Non-Contact 2 Cooling Tower - 800 ☐ Caster Contact 2 Cooling Tower - 1400	0.93	T/YR	PER ROLLING, 12-MONTH PERIOD.	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Contact Cooling Towers (P014)	N/A	i. use of drift eliminator(s) designed to achieve a 0.003% drift rate; ☐ ii. maintenance of a total dissolved solids (TDS) content (for the 5 individual cooling towers) not to exceed the ppm in the circulating cooling water based on a rolling 12-month average as indicated in the table below: ☐ Cooling Tower - TDS (ppm) ☐ Meltshop Cooling Tower (501) - 800 ☐ Caster Non-Contact Cooling Tower (6 Cell) - 800 ☐ Caster Contact Cooling Tower (503) - 1100 ☐ Mill Contact Cooling Tower (505) - 2000 ☐ Laminar Flow Cooling Tower (506) - 1400	8.7	T/YR	PER ROLLING, 12-MONTH PERIOD.	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Contact Cooling Towers (P014)	N/A	i. use of drift eliminator(s) designed to achieve a 0.003% drift rate; ☐ ii. maintenance of a total dissolved solids (TDS) content (for the 5 individual cooling towers) not to exceed the ppm in the circulating cooling water based on a rolling 12-month average as indicated in the table below: ☐ Cooling Tower - TDS (ppm) ☐ Meltshop Cooling Tower (501) - 800 ☐ Caster Non-Contact Cooling Tower (6 Cell) - 800 ☐ Caster Contact Cooling Tower (503) - 1100 ☐ Mill Contact Cooling Tower (505) - 2000 ☐ Laminar Flow Cooling Tower (506) - 1400	6.95	T/YR	PER ROLLING, 12-MONTH PERIOD.	BACT-PSD	
RBLC	OH-0381	NORTHSTAR BLUESCOPE STEEL, LLC	OH	09/27/2019	Contact Cooling Towers (P014)	N/A	i. use of drift eliminator(s) designed to achieve a 0.003% drift rate; ☐ ii. maintenance of a total dissolved solids (TDS) content (for the 5 individual cooling towers) not to exceed the ppm in the circulating cooling water based on a rolling 12-month average as indicated in the table below: ☐ Cooling Tower - TDS (ppm) ☐ Meltshop Cooling Tower (501) - 800 ☐ Caster Non-Contact Cooling Tower (6 Cell) - 800 ☐ Caster Contact Cooling Tower (503) - 1100 ☐ Mill Contact Cooling Tower (505) - 2000 ☐ Laminar Flow Cooling Tower (506) - 1400	0.02	T/YR	PER ROLLING, 12-MONTH PERIOD.	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	Cooling Towers: P054 through P178	N/A	Drift eliminator	0.0005	%	DRIFT RATE	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	Cooling Towers: P054 through P178	N/A	Drift eliminator	0.0005	%	DRIFT RATE	BACT-PSD	
RBLC	OH-0387	INTEL OHIO SITE	OH	09/20/2022	Cooling Towers: P054 through P178	N/A	Drift eliminator	0.0005	%	DRIFT RATE	BACT-PSD	
RBLC	OH-0391	VALENCIA PROJECT LLC	OH	10/27/2023	Cooling Towers (P023, P024, P025)	N/A	A drift eliminator achieving drift losses equal to or less than 0.0005 percent	0.05	LB/H	SEE NOTES	BACT-PSD	
RBLC	OH-0391	VALENCIA PROJECT LLC	OH	10/27/2023	Cooling Towers (P023, P024, P025)	N/A	A drift eliminator achieving drift losses equal to or less than 0.0005 percent	0.04	LB/H	SEE NOTES	BACT-PSD	
RBLC	OH-0391	VALENCIA PROJECT LLC	OH	10/27/2023	Cooling Towers (P023, P024, P025)	N/A	A drift eliminator achieving drift losses equal to or less than 0.0005 percent	0.02	LB/H	SEE NOTES	BACT-PSD	
RBLC	OK-0173	CMC STEEL OKLAHOMA	OK	01/19/2016	Cooling Towers	N/A	Drift eliminators.	0.001	%	DRIFT	BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Cooling Tower	N/A	Not specified	0.8	LB/HR		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Cooling Tower	N/A	Not specified	0.8	LB/HT		BACT-PSD	
RBLC	PA-0310	CPV FAIRVIEW ENERGY CENTER	PA	09/02/2016	Cooling Tower	N/A	Not specified	0.4	LB/HR		BACT-PSD	
RBLC	PA-0312	MONROE ENERGY LLC/TRAINER	PA	01/11/2016	Cooling Tower 1	N/A	Not specified	0.02	GR	DS CF.	OTHER CASE-BY-CASE	
RBLC	PA-0312	MONROE ENERGY LLC/TRAINER	PA	01/11/2016	FCC Cooling Tower	N/A	Not specified	2	GRAIN	DS CF.	OTHER CASE-BY-CASE	
RBLC	PA-0312	MONROE ENERGY LLC/TRAINER	PA	01/11/2016	Crude Cooling Tower	N/A	Annual average VOC concentration in the recirculating cooling water shall not exceed 31 ppmw calculated monthly and averaged on a 12 month rolling basis	0.02	GR	DS CF.	OTHER CASE-BY-CASE	
RBLC	SC-0182	FIBER INDUSTRIES LLC	SC	10/31/2017	Cooling Towers	N/A	High efficiency drift eliminators with drift rate of 0.001%	Not specified			BACT-PSD	
RBLC	SC-0182	FIBER INDUSTRIES LLC	SC	10/31/2017	Cooling Towers	N/A	High efficiency drift eliminators with drift rate of 0.001%	Not specified			BACT-PSD	
RBLC	SC-0182	FIBER INDUSTRIES LLC	SC	10/31/2017	Cooling Towers	N/A	High efficiency drift eliminators with drift rate of 0.001%	Not specified			BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Cooling Towers	N/A	Proper Equipment Design, Operation and Maintenance	0.66	LB/HR	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Cooling Towers	N/A	Proper Equipment Design, Operation and Maintenance	0.33	LB/HR	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Cooling Towers	N/A	Proper Equipment Design, Operation and Maintenance	0.0013	LB/HR	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Cooling Towers (non-contact cooling tower)	N/A	Proper Equipment Design, Operation and Maintenance	0.12	LB/HR	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Cooling Towers (non-contact cooling tower)	N/A	Proper Equipment Design, Operation and Maintenance	0.05	LB/HR	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Cooling Towers (non-contact cooling tower)	N/A	Proper Equipment Design, Operation and Maintenance	0.0003	LB/HR	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Cooling Towers (contact cooling tower)	N/A	Proper Equipment Design, Operation and Maintenance	0.13	LB/HR	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Cooling Towers (contact cooling tower)	N/A	Proper Equipment Design, Operation and Maintenance	0.06	LB/HR	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0183	NUCOR STEEL - BERKELEY	SC	05/04/2018	Cooling Towers (contact cooling tower)	N/A	Proper Equipment Design, Operation and Maintenance	0.0003	LB/HR	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0193	MERCEDES BENZ VANS, LLC	SC	04/15/2016	Cooling Towers	N/A	Not specified	0.001	%	DRIFT RATE	MONTHLY AVERAGE	BACT-PSD
RBLC	SC-0193	MERCEDES BENZ VANS, LLC	SC	04/15/2016	Cooling Towers	N/A	Not specified	0.001	%	DRIFT RATE	MONTHLY AVERAGE	BACT-PSD
RBLC	SC-0193	MERCEDES BENZ VANS, LLC	SC	04/15/2016	Cooling Towers	N/A	Not specified	0.001	%	DRIFT RATE	MONTHLY AVERAGE	BACT-PSD
RBLC	SC-0196	NUCOR CORPORATION - DARLINGTON PLANT	SC	04/29/2019	Cooling Tower (Reheat #1 Cooling Tower)	N/A	Proper equipment design, operation, and maintenance.	0.0001	LB/H	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0196	NUCOR CORPORATION - DARLINGTON PLANT	SC	04/29/2019	Cooling Tower (Reheat #1 Cooling Tower)	N/A	Proper equipment design, operation, and maintenance.	0.0025	LB/H	3-HOUR AVERAGE	BACT-PSD	
RBLC	SC-0196	NUCOR CORPORATION - DARLINGTON PLANT	SC	04/29/2019	Cooling Tower (Reheat #1 Cooling Tower)	N/A	Proper equipment design, operation, and maintenance.	0.0023	LB/H	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0196	NUCOR CORPORATION - DARLINGTON PLANT	SC	04/29/2019	Cooling Tower (Reheat #2 Cooling Tower)	N/A	Proper equipment design, operation, and maintenance.	0.0032	LB/H	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0196	NUCOR CORPORATION - DARLINGTON PLANT	SC	04/29/2019	Cooling Tower (Reheat #2 Cooling Tower)	N/A	Proper equipment design, operation, and maintenance.	0.0028	LB/H	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0196	NUCOR CORPORATION - DARLINGTON PLANT	SC	04/29/2019	Cooling Tower (Reheat #2 Cooling Tower)	N/A	Proper equipment design, operation, and maintenance.	0	LB/H	3-HOUR AVERAGE	BACT-PSD	
RBLC	SC-0196	NUCOR CORPORATION - DARLINGTON PLANT	SC	04/29/2019	Cooling Tower (Rod Line Cooling Tower)	N/A	Proper equipment design, operation, and maintenance.	0.0026	LB/H	3-HOUR AVERAGE	BACT-PSD	
RBLC	SC-0196	NUCOR CORPORATION - DARLINGTON PLANT	SC	04/29/2019	Cooling Tower (Rod Line Cooling Tower)	N/A	Proper equipment design, operation, and maintenance.	0.0025	LB/H	3-HOUR AVERAGE	BACT-PSD	
RBLC	SC-0196	NUCOR CORPORATION - DARLINGTON PLANT	SC	04/29/2019	Cooling Tower (Rod Line Cooling Tower)	N/A	Proper equipment design, operation, and maintenance.	0.0001	LB/H	3-HOUR BLOCK AVERAGE	BACT-PSD	
RBLC	SC-0205	SCOUT MOTORS INC A DELAWARE CORPORATION - BLYTHEWOOD PLANT	SC	10/31/2023	Cooling Towers	N/A	Drift Eliminator	0.001	%	DRIFT RATE	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit			Case-By-Case Basis	Notes
RBLC	SC-0205	SCOUT MOTORS INC A DELAWARE CORPORATION - BLYTHEWOOD PLANT	SC	10/31/2023	Cooling Towers	N/A	Drift Eliminator	0.001	% DRIFT	RATE	BACT-PSD	
RBLC	SC-0205	SCOUT MOTORS INC A DELAWARE CORPORATION - BLYTHEWOOD PLANT	SC	10/31/2023	Cooling Towers	N/A	Drift Eliminator	0.001	% DRIFT	RATE	BACT-PSD	
RBLC	TX-0803	PL PROPYLENE HOUSTON OLEFINS PLANT	TX	07/12/2016	Cooling Tower	N/A	drift eliminators	0.001	% DRIFT		BACT-PSD	
RBLC	TX-0803	PL PROPYLENE HOUSTON OLEFINS PLANT	TX	07/12/2016	Cooling Tower	N/A	drift eliminators	0.001	% DRIFT		BACT-PSD	
RBLC	TX-0815	PORT ARTHUR ETHANE SIDE CRACKER	TX	01/17/2017	Cooling Tower	N/A	Drift Eliminators	Not specified			BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	COOLING TOWERS	N/A	DRIFT ELIMINATOR	Not specified			BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	COOLING TOWERS	N/A	DRAFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0832	EXXONMOBIL BEAUMONT REFINERY	TX	01/09/2018	COOLING TOWERS	N/A	DRIFT ELIMINATOR	Not specified			BACT-PSD	
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	COOLING TOWER	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	COOLING TOWER	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0834	MONTGOMERY COUNTY POWER STATION	TX	03/30/2018	COOLING TOWER	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0841	LHC-9	TX	07/01/2018	Cooling Tower/Heat Exchange System	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0841	LHC-9	TX	07/01/2018	Cooling Tower/Heat Exchange System	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0841	LHC-9	TX	07/01/2018	Cooling Tower/Heat Exchange System	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0847	VALERO PORT ARTHUR REFINERY	TX	09/16/2018	Cooling Towers/Heat Exchange System	N/A	DRIFT ELIMINATORS	0.001	%		BACT-PSD	
RBLC	TX-0847	VALERO PORT ARTHUR REFINERY	TX	09/16/2018	Cooling Towers/Heat Exchange System	N/A	DRIFT ELIMINATORS	0.001	%		BACT-PSD	
RBLC	TX-0863	POLYETHYLENE 7 FACILITY	TX	09/03/2019	COOLING TOWER	N/A	DRIFT ELIMINATOR	Not specified			BACT-PSD	
RBLC	TX-0863	POLYETHYLENE 7 FACILITY	TX	09/03/2019	COOLING TOWER	N/A	DRIFT ELIMINATOR	Not specified			BACT-PSD	
RBLC	TX-0864	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	Cooling Tower	N/A	drift eliminators	0.005	% DRIFT		BACT-PSD	
RBLC	TX-0864	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	Cooling Tower	N/A	DRIFT ELIMINATORS	0.005	% DRIFT		BACT-PSD	
RBLC	TX-0864	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	Cooling Tower	N/A	DRIFT ELIMINATORS	0.005	% DRIFT		BACT-PSD	
RBLC	TX-0865	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	COOLING TOWER	N/A	DRIFT ELIMINATORS	6000	PPMW	TDS	BACT-PSD	
RBLC	TX-0865	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	COOLING TOWER	N/A	DRIFT ELIMINATORS	6000	PPMW	TDS	BACT-PSD	
RBLC	TX-0865	EQUISTAR CHEMICALS CHANNELVIEW COMPLEX	TX	09/09/2019	COOLING TOWER	N/A	DRIFT ELIMINATORS	6000	PPMW	TDS	BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	COOLING TOWER	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	COOLING TOWER	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0873	PORT ARTHUR REFINERY	TX	02/04/2020	COOLING TOWER	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	COOLING TOWER	N/A	DRIFT ELIMINATORS	1200	PPM	TDS	BACT-PSD	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	COOLING TOWER	N/A	DRAFT ELIMINATORS	1200	PPM	TDS	BACT-PSD	
RBLC	TX-0876	PORT ARTHUR ETHANE CRACKER UNIT	TX	02/06/2020	COOLING TOWER	N/A	DRIFT ELIMINATORS	1200	PPM	TDS	BACT-PSD	
RBLC	TX-0881	EXXONMOBIL BEAUMONT REFINERY	TX	01/10/2020	COOLING TOWERS	N/A	High efficiency drift eliminators to control drift to no more than 0.005%.	Not specified			BACT-PSD	
RBLC	TX-0881	EXXONMOBIL BEAUMONT REFINERY	TX	01/10/2020	COOLING TOWERS	N/A	High efficiency drift eliminators to control drift to no more than 0.005%.	Not specified			BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	COOLING TOWERS	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	COOLING TOWERS	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0888	ORANGE POLYETHYLENE PLANT	TX	04/23/2020	COOLING TOWERS	N/A	DRIFT ELIMINATORS	Not specified			BACT-PSD	
RBLC	TX-0904	MOTIVA POLYETHYLENE MANUFACTURING COMPLEX	TX	09/09/2020	COOLING TOWER	N/A	Non-contact design and DRIFT ELIMINATORS	1200	PPMW		BACT-PSD	
RBLC	TX-0904	MOTIVA POLYETHYLENE MANUFACTURING COMPLEX	TX	09/09/2020	COOLING TOWER	N/A	Non-contact design and DRIFT ELIMINATORS	1200	PPMW		BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLC	TX-0904	MOTIVA POLYETHYLENE MANUFACTURING COMPLEX	TX	09/09/2020	COOLING TOWER	N/A	Non-contact design and DRIFT ELIMINATORS	Not specified	BACT-PSD	
RBLC	TX-0905	DIAMOND GREEN DIESEL PORT ARTHUR FACILITY	TX	09/16/2020	COOLING TOWER	N/A	DRIFT ELIMINATORS 0.001%	Not specified	BACT-PSD	
RBLC	TX-0905	DIAMOND GREEN DIESEL PORT ARTHUR FACILITY	TX	09/16/2020	COOLING TOWER	N/A	DRIFT ELIMINATORS 0.001%	Not specified	BACT-PSD	
RBLC	TX-0905	DIAMOND GREEN DIESEL PORT ARTHUR FACILITY	TX	09/16/2020	COOLING TOWER	N/A	DRIFT ELIMINATORS 0.001%	Not specified	BACT-PSD	
RBLC	TX-0915	UNIT 5	TX	03/17/2021	COOLING TOWER	N/A	Drift eliminators 0.0005%	60000 PPM TDS	BACT-PSD	
RBLC	TX-0915	UNIT 5	TX	03/17/2021	COOLING TOWER	N/A	Drift eliminators 0.0005%	60000 PPM TDS	BACT-PSD	
RBLC	TX-0915	UNIT 5	TX	03/17/2021	COOLING TOWER	N/A	Drift eliminators 0.0005%	60000 PPM TDS	BACT-PSD	
RBLC	TX-0922	HOUSTON PLANT - 46307	TX	06/13/2022	COOLING TOWER	N/A	Drift eliminators with 0.0005% drift	Not specified	BACT-PSD	
RBLC	TX-0922	HOUSTON PLANT - 46307	TX	06/13/2022	COOLING TOWER	N/A	Drift eliminators with 0.0005% drift	Not specified	BACT-PSD	
RBLC	TX-0922	HOUSTON PLANT - 46307	TX	06/13/2022	COOLING TOWER	N/A	Drift eliminators with 0.0005% drift	Not specified	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Cooling Tower	N/A	Drift eliminators required. Maximum drift 0.0005 percent. TDS limit of 3,500 ppmw in the cooling water. Daily sampling for TDS required, or weekly TDS sampling is allowed if conductivity is monitored daily and a TDS to conductivity ratio is established.	Not specified	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Cooling Tower	N/A	Drift eliminators required. Maximum drift 0.0005 percent. TDS limit of 3,500 ppmw in the cooling water. Daily sampling for TDS required, or weekly TDS sampling is allowed if conductivity is monitored daily and a TDS to conductivity ratio is established.	Not specified	BACT-PSD	
RBLC	TX-0930	CENTURION BROWNSVILLE	TX	10/19/2021	Cooling Tower	N/A	Drift eliminators required. Maximum drift 0.0005 percent. TDS limit of 3,500 ppmw in the cooling water. Daily sampling for TDS required, or weekly TDS sampling is allowed if conductivity is monitored daily and a TDS to conductivity ratio is established.	Not specified	BACT-PSD	
RBLC	TX-0931	ROEHM AMERICA BAY CITY SITE	TX	12/16/2021	Cooling Tower	N/A	Drift eliminators with 0.001% drift	Not specified	BACT-PSD	
RBLC	TX-0931	ROEHM AMERICA BAY CITY SITE	TX	12/16/2021	Cooling Tower	N/A	Drift eliminators with 0.001% drift	Not specified	BACT-PSD	
RBLC	TX-0931	ROEHM AMERICA BAY CITY SITE	TX	12/16/2021	Cooling Tower	N/A	Drift eliminators with 0.001% drift	Not specified	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Cooling tower	N/A	Drift eliminators with 0.001% drift	5000 PPM	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Cooling tower	N/A	Drift eliminators with 0.001% drift	Not specified	BACT-PSD	
RBLC	TX-0933	NACERO PENWELL FACILITY	TX	11/17/2021	Cooling tower	N/A	Drift eliminators with 0.001% drift	Not specified	BACT-PSD	
RBLC	TX-0938	VALERO CORPUS CHRISTI REFINERY WEST PLANT	TX	05/03/2024	COOLING TOWER	N/A	Drift eliminators 0.001% drift	Not specified	BACT-PSD	
RBLC	TX-0938	VALERO CORPUS CHRISTI REFINERY WEST PLANT	TX	05/03/2024	COOLING TOWER	N/A	Drift eliminators 0.001% drift	Not specified	BACT-PSD	
RBLC	TX-0938	VALERO CORPUS CHRISTI REFINERY WEST PLANT	TX	05/03/2024	COOLING TOWER	N/A	Drift eliminators 0.001% drift	Not specified	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	COOLING TOWER	N/A	0.001% DRIFT ELIMINATORS	Not specified	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	COOLING TOWER	N/A	0.001% DRIFT ELIMINATORS	Not specified	BACT-PSD	
RBLC	TX-0939	ORANGE COUNTY ADVANCED POWER STATION	TX	03/13/2023	COOLING TOWER	N/A	0.001% DRIFT ELIMINATORS	Not specified	BACT-PSD	
RBLC	TX-0940	FIBERGLASS MANUFACTURING FACILITY	TX	09/06/2022	COOLING TOWER	N/A	DRIFT ELIMINATOR	0.001 %	BACT-PSD	
RBLC	TX-0940	FIBERGLASS MANUFACTURING FACILITY	TX	09/06/2022	COOLING TOWER	N/A	DRIFT ELIMINATOR	0.001 %	BACT-PSD	
RBLC	TX-0940	FIBERGLASS MANUFACTURING FACILITY	TX	09/06/2022	COOLING TOWER	N/A	DRIFT ELIMINATOR	0.001 %	BACT-PSD	
RBLC	TX-0956	ENTERPRISE MONT BELVIEU COMPLEX	TX	06/08/2023	cooling tower	N/A	Drift less than or equal to 0.001%.	Not specified	BACT-PSD	
RBLC	TX-0956	ENTERPRISE MONT BELVIEU COMPLEX	TX	06/08/2023	cooling tower	N/A	Drift less than or equal to 0.001%.	Not specified	BACT-PSD	
RBLC	TX-0956	ENTERPRISE MONT BELVIEU COMPLEX	TX	06/08/2023	cooling tower	N/A	Drift less than or equal to 0.001%.	Not specified	BACT-PSD	
RBLC	TX-0956	ENTERPRISE MONT BELVIEU COMPLEX	TX	06/08/2023	wet surface air coolers	N/A	Drift less than or equal to 0.001%.	Not specified	BACT-PSD	
RBLC	TX-0956	ENTERPRISE MONT BELVIEU COMPLEX	TX	06/08/2023	wet surface air coolers	N/A	Drift less than or equal to 0.001%.	Not specified	BACT-PSD	
RBLC	TX-0956	ENTERPRISE MONT BELVIEU COMPLEX	TX	06/08/2023	wet surface air coolers	N/A	Drift less than or equal to 0.001%.	Not specified	BACT-PSD	
RBLC	TX-0964	NEDERLAND FACILITY	TX	10/05/2023	COOLING TOWERS	N/A	Drift eliminators with 0.001% drift	2000 PPMW TDS	BACT-PSD	
RBLC	TX-0964	NEDERLAND FACILITY	TX	10/05/2023	COOLING TOWERS	N/A	Drift eliminators with 0.001% drift	2000 PPMW TDS	BACT-PSD	
RBLC	TX-0967	QUAIL RUN CARBON CAPTURE PLANT	TX	02/05/2024	COOLING TOWERS	N/A	drift eliminators 0.0005%	Not specified	BACT-PSD	
RBLC	TX-0967	QUAIL RUN CARBON CAPTURE PLANT	TX	02/05/2024	COOLING TOWERS	N/A	drift eliminators 0.0005%	Not specified	BACT-PSD	

Database	Database ID	Facility Name	State	Permit Date	Process	Fuel	Control Option	Emission Limit	Case-By-Case Basis	Notes
RBLCL	TX-0967	QUAIL RUN CARBON CAPTURE PLANT	TX	02/05/2024	COOLING TOWERS	N/A	drift eliminators 0.0005%	Not specified	BACT-PSD	
RBLCL	*TX-0983	CPV BASIN RANCH ENERGY CENTER	TX	11/24/2024	COOLING TOWERS	N/A	Use of drift eliminators 0.0005% drift loss.	Not specified	BACT-PSD	
RBLCL	*TX-0983	CPV BASIN RANCH ENERGY CENTER	TX	11/24/2024	COOLING TOWERS	N/A	Use of drift eliminators 0.0005% drift loss.	Not specified	BACT-PSD	
RBLCL	*TX-0983	CPV BASIN RANCH ENERGY CENTER	TX	11/24/2024	COOLING TOWERS	N/A	Use of drift eliminators 0.0005% drift loss.	Not specified	BACT-PSD	
RBLCL	*TX-0999	SEMICONDUCTOR MANUFACTURING FACILITY	TX	07/07/2025	COOLING TOWERS	N/A	particulate emissions be minimized through the drift eliminators which are designed to limit total liquid drift to no greater than 0.001%. Drift eliminators must be inspected regularly and must be repaired or replaced when defects are discovered.	Not specified	BACT-PSD	
RBLCL	*TX-0999	SEMICONDUCTOR MANUFACTURING FACILITY	TX	07/07/2025	COOLING TOWERS	N/A	particulate emissions be minimized through the drift eliminators which are designed to limit total liquid drift to no greater than 0.001%. Drift eliminators must be inspected regularly and must be repaired or replaced when defects are discovered.	Not specified	BACT-PSD	
RBLCL	*TX-0999	SEMICONDUCTOR MANUFACTURING FACILITY	TX	07/07/2025	COOLING TOWERS	N/A	particulate emissions be minimized through the drift eliminators which are designed to limit total liquid drift to no greater than 0.001%. Drift eliminators must be inspected regularly and must be repaired or replaced when defects are discovered.	Not specified	BACT-PSD	
RBLCL	*TX-1005	FERMI AMERICA PROJECT MATADOR	TX	02/25/2026	COOLING TOWERS	N/A	minimized through the drift eliminators which are designed to limit total liquid drift to no greater than 0.001%. Drift eliminators must be inspected regularly and must be repaired or replaced when defects are discovered	Not specified	BACT-PSD	
RBLCL	*TX-1005	FERMI AMERICA PROJECT MATADOR	TX	02/25/2026	COOLING TOWERS	N/A	minimized through the drift eliminators which are designed to limit total liquid drift to no greater than 0.001%. Drift eliminators must be inspected regularly and must be repaired or replaced when defects are discovered	Not specified	BACT-PSD	
RBLCL	*TX-1005	FERMI AMERICA PROJECT MATADOR	TX	02/25/2026	COOLING TOWERS	N/A	minimized through the drift eliminators which are designed to limit total liquid drift to no greater than 0.001%. Drift eliminators must be inspected regularly and must be repaired or replaced when defects are discovered	Not specified	BACT-PSD	
RBLCL	VA-0328	C4GT, LLC	VA	04/26/2018	Cooling Tower	N/A	Drift rate of 0.00050 percent of the circulating water flow with mist eliminators and a total dissolved solids content of the cooling water, not to exceed 6250 mg.liter.	Not specified	BACT-PSD	
RBLCL	VA-0328	C4GT, LLC	VA	04/26/2018	Cooling Tower	N/A	Particulate matter emissions from the cooling tower will be controlled to a drift rate of 0.00050 percent of the circulating water flow with mist eliminators and a total dissolved solids content of the cooling water effluent shall not exceed 6250 mg/l	Not specified	BACT-PSD	
RBLCL	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	P02A-P; P03A-P Cooling Towers	N/A	Drift Eliminator & Cooling Additive Control System	Not specified	BACT-PSD	
RBLCL	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	P02A-P; P03A-P Cooling Towers	N/A	Drift Eliminator & Cooling Additive Control System	Not specified	BACT-PSD	
RBLCL	WI-0284	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	P02A-P; P03A-P Cooling Towers	N/A	Drift Eliminator & Cooling Additive Control System	Not specified	BACT-PSD	
RBLCL	WI-0286	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	P41 Cooling Tower	N/A	The Use of a Drift Eliminator and Cooling Additive System	Not specified	BACT-PSD	
RBLCL	WI-0286	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	P41 Cooling Tower	N/A	The Use of a Drift Eliminator and Cooling Additive System	Not specified	BACT-PSD	
RBLCL	WI-0286	SIO INTERNATIONAL WISCONSIN, INC. - ENERGY PLANT	WI	04/24/2018	P41 Cooling Tower	N/A	The Use of a Drift Eliminator and Cooling Additive System	Not specified	BACT-PSD	
RBLCL	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Cooling Tower No.1 (P80)	N/A	Drift eliminator, cooling additive control system that results in a total dissolved solids (TDS) concentration of not more than 3,000 ppm.	0.0005 % CIRCULATION DRIFT	BACT-PSD	
RBLCL	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Cooling Tower No.1 (P80)	N/A	Drift eliminator, cooling additive control system that results in a total dissolved solids (TDS) concentration of not more than 3,000 ppm.	0.0005 % CIRCULATION DRIFT	BACT-PSD	
RBLCL	WI-0311	SUPERIOR REFINING COMPANY LLC	WI	09/27/2019	Cooling Tower No.1 (P80)	N/A	Drift eliminator, cooling additive control system that results in a total dissolved solids (TDS) concentration of not more than 3,000 ppm.	0.0005 % CIRCULATION DRIFT	BACT-PSD	
RBLCL	*WI-0329	CHS OILSEED PROCESSING LLC	WI	04/01/2025	Cooling Tower	N/A	Drift eliminator with a drift rate of 0.0005% or less	0.0005 % DRIFT RATE	BACT-PSD	
RBLCL	WV-0027	INWOOD	WV	09/15/2017	Cooling Tower 3 Cells	N/A	0.005% drift eliminator	0.04 LB/HR 3 HOUR AVERAGE	BACT-PSD	
RBLCL	*WV-0033	MAIDSVILLE	WV	01/05/2022	Cooling Tower	N/A	Drift Eliminator to 0.0005%	2.16 LB/HR	BACT-PSD	
RBLCL	*WV-0034	WEST VIRGINIA STEEL MILL	WV	05/05/2022	Cooling Towers	N/A	High Efficiency Drift Eliminator at 0.0005%.	Not specified	BACT-PSD	
RBLCL	*WV-0035	CMC STEEL WEST VIRGINIA	WV	06/30/2023	Cooling Towers	N/A	Drift Eliminators, maximum drift rate 0.001%	0.11 LB/HR	BACT-PSD	
RBLCL	*WV-0035	CMC STEEL WEST VIRGINIA	WV	06/30/2023	Cooling Towers	N/A	Drift Eliminators, maximum drift rate of 0.001%.	0.06 LB/HR	BACT-PSD	

End of table

EQ_PROC_ID	EQ_PROC_DESC	ACTN	MAX_DESG_CAP	CONT_ID	EMISS_PT_ID
CT1	Mitsubishi Combined Cycle Combustion Turbine nominally rated heat input of ~4,115 MMBtu/hr when firing natural gas and ~3,495 MMBtu/hr when firing fuel oil at ISO conditions (i.e., 59 °F ambient temperature).	Add	4,115 MMBtu/hr	SCR01 OXCAT01 WIN01	ST01
CT2	Mitsubishi Combined Cycle Combustion Turbine nominally rated heat input of ~4,115 MMBtu/hr when firing natural gas and ~3,495 MMBtu/hr when firing fuel oil at ISO conditions (i.e., 59 °F ambient temperature).	Add	4,115 MMBtu/hr	SCR02 OXCAT02 WIN02	ST02
CT3	Mitsubishi Combined Cycle Combustion Turbine nominally rated heat input of ~4,115 MMBtu/hr when firing natural gas and ~3,495 MMBtu/hr when firing fuel oil at ISO conditions (i.e., 59 °F ambient temperature).	Add	4,115 MMBtu/hr	SCR03 OXCAT03 WIN0	ST03
DB1	Duct Burner nominally rated heat input of ~851.5 MMBtu/hr firing natural gas at ISO conditions (i.e., 59 °F ambient temperature)	Add	851.5 MMBtu/hr	SCR01 OXCAT01	ST01
DB2	Duct Burner nominally rated heat input of ~851.5 MMBtu/hr firing natural gas at ISO conditions (i.e., 59 °F ambient temperature)	Add	851.5 MMBtu/hr	SCR02 OXCAT02	ST02
DB3	Duct Burner nominally rated heat input of ~851.5 MMBtu/hr firing natural gas at ISO conditions (i.e., 59 °F ambient temperature)	Add	851.5 MMBtu/hr	SCR03 OXCAT03	ST03
AB01	99.8 MMBtu/hr Natural-Gas Fired Auxiliary Boiler	Add	99.8 MMBtu/hr	NA	ST04
EG01	Diesel-Fired 2500 kW Emergency Generator Set #1	Add	2760 kW	NA	ST05
EG02	Diesel-Fired 2500 kW Emergency Generator Set #2	Add	2760 kW	NA	ST06
EG03	Diesel-Fired 2500 kW Emergency Generator Set #3	Add	2760 kW	NA	ST07
FP01	Diesel-Fired 315 hp Fire Water Pump Engine #1	Add	315 hp	NA	ST08
FP02	Diesel-Fired 315 hp Fire Water Pump Engine #2	Add	315 hp	NA	ST09

FUGNG	Piping Components (Fugitive Emissions)	Add	NA	NA	FUG1
EGBT01	4000-gallon Diesel Belly Tank	Add	4000 gallon	NA	FUG2
EGBT02	4000-gallon Diesel Belly Tank	Add	4000 gallon	NA	FUG3
EGBT03	4000-gallon Diesel Belly Tank	Add	4000 gallon	NA	FUG4
FPBT01	300-gallon Diesel Belly Tank	Add	300 gallon	NA	FUG5
FPBT02	300-gallon Diesel Belly Tank	Add	300 gallon	NA	FUG6
AST01	3-Million Gallon, Fixed Roof Fuel Oil Storage Tank #1	Add	3,000,000 gallon	NA	FUG7
AST02	3-Million Gallon, Fixed Roof Fuel Oil Storage Tank #2	Add	3,000,000 gallon	NA	FUG8
FUGSF6	Sixty-six (66) SF6 Circuit Breakers	Add	See Appendix A.	NA	FUG9
HT01	Natural Gas-Fired Fuel Gas Heater #1, 20 MMBtu/hr	Add	20 MMBtu/hr	NA	ST10
HT02	Natural Gas-Fired Fuel Gas Heater #2, 20 MMBtu/hr	Add	20 MMBtu/hr	NA	ST11
HT03	Natural Gas-Fired Fuel Gas Heater #3, 20 MMBtu/hr	Add	20 MMBtu/hr	NA	ST12
HT04	Natural Gas-Fired Low Pressure Heater, 3.0 MMBtu/hr	Add	3 MMBtu/hr	NA	ST13
PR	Fugitive Dust from Paved Roads	Add	NA	NA	FUG10
EG04	Emergency Generator associated with Cell Tower; Diesel-fired.	Existing	81 hp	NA	ST14
EG05	Emergency Generator associated with SIP Hut; Fueled by Natural Gas / Propane.	Existing	33 kW	NA	ST15
COOL1	Inlet Chiller Cooling Tower w/ 4 Cells	Add	24,000 gpm	DRIFT01	IC01
COOL2	Inlet Chiller Cooling Tower w/ 4 Cells	Add	24,000 gpm	DRIFT02	IC02
COOL3	Inlet Chiller Cooling Tower w/ 4 Cells	Add	24,000 gpm	DRIFT03	IC03
COOL4	Inlet Chiller Cooling Tower w/ 4 Cells	Add	24,000 gpm	DRIFT04	IC04
COOL5	Inlet Chiller Cooling Tower w/ 4 Cells	Add	24,000 gpm	DRIFT05	IC05
COOL6	Inlet Chiller Cooling Tower w/ 4 Cells	Add	24,000 gpm	DRIFT06	IC06
DELUGE1	Delugable Cooling System w/ 4 Wet Cells & 4 Dry Cells	Add	25,000 GPM	DRIFT07	DCS01
DELUGE2	Delugable Cooling System w/ 4 Wet Cells & 4 Dry Cells	Add	25,000 GPM	DRIFT08	DCS02
DELUGE3	Delugable Cooling System w/ 4 Wet Cells & 4 Dry Cells	Add	25,000 GPM	DRIFT09	DCS03

Column Header	Field Name	Help/Instructions
EQ_PROC_ID	Equipment ID	Equipment ID
EQ_PROC_DESC	Equipment/Process Description	Equipment/Process Description
ACTN	Equipment Action	Action
MAX_DESG_CAP	Maximum Design Capacity (Include Units)	Maximum Design Capacity (Include Units)
CONT_ID	Control Device ID	Control Device ID
EMISS_PT_ID	Emission Point ID	Emission Point ID

CONTRL_ID	CONT_DEV_DESCR	ACTN2	MAX_DES_CAP	INHER_REQ_VOL	POLL_CONT	POLL_CONT#reasonForOther	CAP_EFF	DEST_REM_EFF	EMM_PT_ID
SCR01	Selective Catalytic Reduction system	Add	N/A	Required	Nitrogen Oxides (NOx)		100%	See performance data in App B	ST01
SCR02	Selective Catalytic Reduction system	Add	N/A	Required	Nitrogen Oxides (NOx)		100%	See performance data in App B	ST02
SCR03	Selective Catalytic Reduction system	Add	N/A	Required	Nitrogen Oxides (NOx)		100%	See performance data in App B	ST03
OXCAT01	Oxidation Catalyst	Add	N/A	Required	Carbon Monoxide (CO)		100%	See performance data in App B	ST01
OXCAT02	Oxidation Catalyst	Add	N/A	Required	Carbon Monoxide (CO)		100%	See performance data in App B	ST02
OXCAT03	Oxidation Catalyst	Add	N/A	Required	Carbon Monoxide (CO)		100%	See performance data in App B	ST03
OXCAT01	Oxidation Catalyst	Add	N/A	Required	Total Volatile Organic Compounds (VOC)		100%	See performance data in App B	ST01
OXCAT02	Oxidation Catalyst	Add	N/A	Required	Total Volatile Organic Compounds (VOC)		100%	See performance data in App B	ST02
OXCAT03	Oxidation Catalyst	Add	N/A	Required	Total Volatile Organic Compounds (VOC)		100%	See performance data in App B	ST03
WIN01	Water Injection	Add	N/A	Required	Nitrogen Oxides (NOx)		100%	See performance data in App B	ST01
WIN02	Water Injection	Add	N/A	Required	Nitrogen Oxides (NOx)		100%	See performance data in App B	ST02
WIN03	Water Injection	Add	N/A	Required	Nitrogen Oxides (NOx)		100%	See performance data in App B	ST03
DRIFT01	Inlet Chiller 1	Add	N/A	Required	PM/PM10/PM2.5		N/A	0.0005% Drift Rate	IC01
DRIFT02	Inlet Chiller 2	Add	N/A	Required	PM/PM10/PM2.5		N/A	0.0005% Drift Rate	IC02
DRIFT03	Inlet Chiller 3	Add	N/A	Required	PM/PM10/PM2.5		N/A	0.0005% Drift Rate	IC03
DRIFT04	Inlet Chiller 4	Add	N/A	Required	PM/PM10/PM2.5		N/A	0.0005% Drift Rate	IC04
DRIFT05	Inlet Chiller 5	Add	N/A	Required	PM/PM10/PM2.5		N/A	0.0005% Drift Rate	IC05
DRIFT06	Inlet Chiller 6	Add	N/A	Required	PM/PM10/PM2.5		N/A	0.0005% Drift Rate	IC06
DRIFT07	Delugable Cooling System 1	Add	N/A	Required	PM/PM10/PM2.5		N/A	0.01% Drift Rate	DCS01
DRIFT08	Delugable Cooling System 2	Add	N/A	Required	PM/PM10/PM2.5		N/A	0.01% Drift Rate	DCS02
DRIFT09	Delugable Cooling System 3	Add	N/A	Required	PM/PM10/PM2.5		N/A	0.01% Drift Rate	DCS03

Column Header	Field Name	Help/Instructions
CONTRL_ID	Control Device ID	enter ID that matches table above
CONT_DEV_DESCR	Control Device Description	Control Device Description
ACTN2	Action	Action
MAX_DES_CAP	Maximum Design Capacity (include units)	Maximum Design Capacity (include units)
INHER_REQ_VOL	Inherent/ Required/ Voluntary	Inherent/ Required/ Voluntary
POLL_CONT	Pollutant Controlled	If this Control Device controls more than one pollutant, add rows as needed. Pick one: Particulate Matter (PM), Particulate Matter <10 Microns (PM10), Particulate Matter <2.5 Microns (PM2.5), PM/PM10/PM2.5, Sulfur Dioxide (SO2), Nitrogen Oxides (NOx), Carbon Monoxide (CO), Total Volatile Organic Compounds (VOC), Lead (Pb), Fluorides, Sulfuric Acid Mist (H2SO4), Hydrogen Sulfide (H2S), Total Reduced Sulfur (including H2S), Reduced Sulfur Compounds (including H2S), Dioxins and Furans, Hydrogen Chloride (HCl), Nonmethane Organic Compounds (NMOC), TAPs/HAPs, Other
POLL_CONT#reasonForOther	Explain "Other" in column "POLL_CONT" (if applicable).	
CAP_EFF	Capture Efficiency %	Capture Efficiency %
DEST_REM_EFF	Destruction/ Removal Efficiency %	Destruction/ Removal Efficiency %
EMM_PT_ID	Emission Point ID(s)	Emission Point ID(s)

PLLTNT	PLLTNT#reasonForOther	UNCONT_TPY_PRIOR	CONT_TPY_PRE	PTE_PRIOR	UNCONT_TPY_POST	CONT_TPY_POST	PTE_POST
Nitrogen Oxides (NOx)		0	0	0	Not Quantified	Not Quantified	731.13
Carbon Monoxide (CO)		0	0	0	Not Quantified	Not Quantified	2775.60
Total Volatile Organic Compounds (VOC)		0	0	0	Not Quantified	Not Quantified	972.34
Sulfur Dioxide (SO2)		0	0	0	Not Quantified	Not Quantified	118.50
Particulate Matter (PM)		0	0	0	Not Quantified	Not Quantified	617.30
Particulate Matter <10 Microns (PM10)		0	0	0	Not Quantified	Not Quantified	615.16
Particulate Matter <2.5 Microns (PM2.5)		0	0	0	Not Quantified	Not Quantified	613.11
Lead (Pb)		0	0	0	Not Quantified	Not Quantified	0.08
Other	Sulfuric Acid Mist	0	0	0	Not Quantified	Not Quantified	197.1
Other	Fluorides	0	0	0	Not Quantified	Not Quantified	--
Other	Hydrogen Sulfide (H2S)	0	0	0	Not Quantified	Not Quantified	--
Other	Total Reduced Sulfur	0	0	0	Not Quantified	Not Quantified	4.70E-04
Other	Reduced Sulfur Compounds	0	0	0	Not Quantified	Not Quantified	4.70E-04
Other	1,1,2,2-Tetrachloroethane	0	0	0	Not Quantified	Not Quantified	0
Other	1,1,2-Trichloroethane	0	0	0	Not Quantified	Not Quantified	0
Other	1,1-Dichloroethane	0	0	0	Not Quantified	Not Quantified	0
Other	1,2-Dichloroethane	0	0	0	Not Quantified	Not Quantified	0
Other	1,2-Dichloropropane	0	0	0	Not Quantified	Not Quantified	0
Other	1,3-Butadiene	0	0	0	Not Quantified	Not Quantified	8.61E-02
Other	1,3-Dichloropropene	0	0	0	Not Quantified	Not Quantified	0
Other	2-Methylnaphthalene	0	0	0	Not Quantified	Not Quantified	8.53E-06
Other	3-Methylchloranthrene	0	0	0	Not Quantified	Not Quantified	6.40E-07
Other	7,12-Dimethylbenz(a)anthracene	0	0	0	Not Quantified	Not Quantified	5.69E-06
Other	Acenaphthene	0	0	0	Not Quantified	Not Quantified	6.40E-07
Other	Acenaphthylene	0	0	0	Not Quantified	Not Quantified	6.40E-07
Other	Acetaldehyde	0	0	0	Not Quantified	Not Quantified	2.61
Other	Acrolein	0	0	0	Not Quantified	Not Quantified	4.18E-01
Other	Anthracene	0	0	0	Not Quantified	Not Quantified	8.53E-07
Other	Arsenic	0	0	0	Not Quantified	Not Quantified	5.33E-02
Other	Benzene	0	0	0	Not Quantified	Not Quantified	9.42E-01
Other	Benz(a)anthracene	0	0	0	Not Quantified	Not Quantified	6.40E-07
Other	Benzo(a)pyrene	0	0	0	Not Quantified	Not Quantified	4.27E-07
Other	Benzo(b)fluoranthene	0	0	0	Not Quantified	Not Quantified	6.40E-07
Other	Benzo(g,h,i)perylene	0	0	0	Not Quantified	Not Quantified	4.27E-07
Other	Benzo(k)fluoranthene	0	0	0	Not Quantified	Not Quantified	6.40E-07
Other	Beryllium	0	0	0	Not Quantified	Not Quantified	1.88E-03
Other	Cadmium	0	0	0	Not Quantified	Not Quantified	8.31E-02
Other	Carbon Tetrachloride	0	0	0	Not Quantified	Not Quantified	0
Other	Chlorobenzene	0	0	0	Not Quantified	Not Quantified	0
Other	Chloroform	0	0	0	Not Quantified	Not Quantified	0
Other	Chromium	0	0	0	Not Quantified	Not Quantified	1.24E-01
Other	Chrysene	0	0	0	Not Quantified	Not Quantified	6.40E-07
Other	Cobalt	0	0	0	Not Quantified	Not Quantified	5.40E-03
Other	Dichlorobenzene	0	0	0	Not Quantified	Not Quantified	4.27E-04
Other	Dibenzo(a,h)anthracene	0	0	0	Not Quantified	Not Quantified	4.27E-07
Other	Ethylbenzene	0	0	0	Not Quantified	Not Quantified	2.09
Other	Ethylene Dibromide	0	0	0	Not Quantified	Not Quantified	0
Other	Fluoranthene	0	0	0	Not Quantified	Not Quantified	1.07E-06
Other	Fluorene	0	0	0	Not Quantified	Not Quantified	9.95E-07
Other	Formaldehyde	0	0	0	Not Quantified	Not Quantified	26.31
Other	Hexane	0	0	0	Not Quantified	Not Quantified	6.65E-01
Other	Indeno(1,2,3-c,d)pyrene	0	0	0	Not Quantified	Not Quantified	6.40E-07
Other	Manganese	0	0	0	Not Quantified	Not Quantified	3.00
Other	Mercury	0	0	0	Not Quantified	Not Quantified	1.99E-02
Other	Methanol	0	0	0	Not Quantified	Not Quantified	0
Other	Methylene Chloride	0	0	0	Not Quantified	Not Quantified	0
Other	Nickel	0	0	0	Not Quantified	Not Quantified	1.41E-01
Other	Naphthalene	0	0	0	Not Quantified	Not Quantified	2.13E-01
Other	PAH	0	0	0	Not Quantified	Not Quantified	2.87E-01
Other	Phenanthrene	0	0	0	Not Quantified	Not Quantified	6.04E-06
Other	Propylene Oxide	0	0	0	Not Quantified	Not Quantified	1.89
Other	Pyrene	0	0	0	Not Quantified	Not Quantified	1.78E-06
Other	Selenium	0	0	0	Not Quantified	Not Quantified	9.58E-02

Other	Styrene	0	0	0	Not Quantified	Not Quantified	0
Other	Toluene	0	0	0	Not Quantified	Not Quantified	8.49
Other	Vinyl Chloride	0	0	0	Not Quantified	Not Quantified	0
Other	Xylenes	0	0	0	Not Quantified	Not Quantified	4.19
Other	Polycyclic Organic Matter	0	0	0	Not Quantified	Not Quantified	2.87E-01
Highest HAP		0	0	0	Not Quantified	Not Quantified	26.31
Total HAP Emissions		0	0	0	Not Quantified	Not Quantified	51.73

Column Header	Field Name	Help/Instructions
PLLTNT	Pollutant	Pollutant
PLLTNT#reasonForOther	Explain "Other" in column "PLLTNT" (if applicable).	
UNCONT_TPY_PRIOR	Pre-Construction Uncontrolled TPY	Uncontrolled TPY (Prior to Construction)
CONT_TPY_PRE	Pre-Construction Controlled TPY	Controlled TPY (Prior to Construction)
PTE_PRIOR	Pre-Construction PTE TPY	PTE TPY (Prior to Construction)
UNCONT_TPY_POST	Post Construction Uncontrolled TPY	Uncontrolled TPY (Post Construction)
CONT_TPY_POST	Post Construction Controlled TPY	Controlled TPY (Post Construction)
PTE_POST	Post Construction PTE TPY	PTE TPY (Post Construction)

Appendix A-1
Project-Wide Potential Emission Summary
Canadys Station | Walterboro, South Carolina
Revised July 2026

PROJECT-WIDE TOTAL EMISSIONS SUMMARY (TONS/YEAR)															
Pollutant	Gas Turbines and Duct Burners	Natural-Gas Fired Auxiliary Boiler	Diesel-Fired Emergency Generators	Diesel-Fired Fire Water Pumps	Piping Components	Belly Tanks	Fuel Oil Storage Tanks	SF ₆ Circuit Breakers	Fuel Gas Heaters	Inlet Chillers	Delugable Auxiliary Equipment Cooling Systems	Project-Wide Total ^[1]	PSD Permitting Threshold ^[2]	PSD Significant Emission Rates ^[3]	Thresholds Exceeded
	EU01 - EU03 (CTs); EU04a - EU04c (DBs)	EU05	EU06, EU07, EU08	EU09A, EU09B	EU10	EU11 - EU14A, EU14B	EU15 & EU16	EU17	EU18 - EU21	EU24	EU25				
NSR Pollutants															
NO _x	661.7	3.69	39.04	0.93	--	--	--	--	25.76	--	--	731.13	100	40	PSD, SER
CO	2,745.4	3.74	4.65	0.16	--	--	--	--	21.64	--	--	2,775.60	100	100	PSD, SER
VOC	968.0	0.54	0.86	0.02	0.52	#N/A	1.01	--	1.42	--	--	#N/A	100	40	PSD, SER
SO ₂	118.3	0.06	0.03	0.002	--	--	--	--	0.15	--	--	118.50	100	40	PSD, SER
PM ₁₀	607.0	0.74	0.31	0.03	--	--	--	--	1.96	2.37E+00	4.93E+00	617.30	100	25	PSD, SER
PM _{2.5}	607.0	0.74	0.35	0.03	--	--	--	--	1.96	1.66E+00	3.45E+00	615.16	100	15	PSD, SER
PM _{2.5}	607.0	0.74	0.35	0.03	--	--	--	--	1.96	9.95E-01	2.07E+00	613.11	100	10	PSD, SER
Lead	0.1	0.00005	--	--	--	--	--	--	0.0001	--	--	0.08	100	0.6	--
Sulfuric Acid Mist	197.1	--	--	--	--	--	--	--	--	--	--	197.10	100	7.0	PSD, SER
Fluorides	--	--	--	--	--	--	--	--	--	--	--	--	100	3	--
Hydrogen Sulfide (H ₂ S)	--	--	--	--	--	--	--	--	--	--	--	--	100	10	--
Total Reduced Sulfur ^{[4][5]}	--	--	--	--	4.70E-04	--	--	--	--	--	--	4.70E-04	100	10	--
Reduced Sulfur Compounds ^{[4][5]}	--	--	--	--	4.70E-04	--	--	--	--	--	--	4.70E-04	100	10	--
Ozone	--	--	--	--	--	--	--	--	--	--	--	--	--	40 (NO _x or VOCs)	SER for NO _x and VOCs
Greenhouse Gases^[6]															
CO ₂	7,831,019.5	1.17E+04	2.98E+03	--	8.31E-01	--	--	--	3.53E+02	--	--	7,846,097.29	--	--	--
CH ₄	157.0	2.25E-01	1.21E-01	--	4.44E+01	--	--	--	6.76E-03	--	--	201.76	--	--	--
N ₂ O	18.2	6.26E-02	2.42E-02	--	--	--	--	--	6.47E-03	--	--	18.29	--	--	--
CO _{2e}	7,838,860	11,764	2,993	168	1,244	--	--	744	31,084	--	--	7,886,857.5	--	75,000	SER
Hazardous Air Pollutants															
Pollutant	Gas Turbines and Duct Burners	Natural-Gas Fired Auxiliary Boiler	Diesel-Fired Emergency Generators	Diesel-Fired Fire Water Pumps	Piping Components	Belly Tanks	Fuel Oil Storage Tanks	SF ₆ Circuit Breakers	Fuel Gas Heaters	Inlet Chillers	Delugable Auxiliary Equipment Cooling Systems	Facility-Wide Total ^[1]	Major Source HAP Threshold	Major Source HAP Threshold Exceeded?	
	EU01 - EU03 (CTs); EU04a - EU04c (DBs)	EU05	EU06, EU07, EU08	EU09A, EU09B	EU10	EU11 - EU14A, EU14B	EU15 & EU16	EU17	EU18 - EU21	EU24	EU25				
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
1,1-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
1,2-Dichloropropane	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
1,3-Butadiene	0.1	--	--	--	--	--	--	--	--	--	--	8.61E-02	10	No	
1,3-Dichloropropene	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
2-Methylnaphthalene	--	2.35E-06	--	--	--	--	--	--	6.18E-06	--	--	8.53E-06	10	No	
3-Methylchloranthrene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
7,12-Dimethylbenzo(a)anthracene	--	1.57E-06	--	--	--	--	--	--	4.12E-06	--	--	5.69E-06	10	No	
Acenaphthene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Acenaphthylene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Acetaldehyde	2.6	--	4.35E-04	2.59E-05	--	--	--	--	--	--	--	2.61E+00	10	No	
Acrolein	0.4	--	1.36E-04	8.10E-06	--	--	--	--	--	--	--	4.18E-01	10	No	
Anthracene	--	2.35E-07	--	--	--	--	--	--	6.18E-07	--	--	8.53E-07	10	No	
Arsenic	0.1	1.96E-05	--	--	--	--	--	--	5.15E-05	--	--	5.33E-02	10	No	
Benzene	0.9	2.05E-04	1.34E-02	7.98E-04	--	--	5.32E-04	--	5.41E-04	--	--	9.42E-01	10	No	
Benzo(a)anthracene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Benzo(a)pyrene	--	1.17E-07	--	--	--	--	--	--	3.09E-07	--	--	4.27E-07	10	No	
Benzo(b)fluoranthene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Benzo(g,h,i)perylene	--	1.17E-07	--	--	--	--	--	--	3.09E-07	--	--	4.27E-07	10	No	
Benzo(k)fluoranthene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Beryllium	0.0	1.17E-06	--	--	--	--	--	--	3.09E-06	--	--	1.88E-03	10	No	
Cadmium	0.1	1.08E-04	--	--	--	--	--	--	2.83E-04	--	--	8.31E-02	10	No	
Carbon Tetrachloride	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Chlorobenzene	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Chloroform	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Chromium	0.1	1.37E-04	--	--	--	--	--	--	3.61E-04	--	--	1.24E-01	10	No	
Chrysene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Cobalt	0.0	8.22E-06	--	--	--	--	--	--	2.16E-05	--	--	5.40E-03	10	No	
Dichlorobenzene	--	1.17E-04	--	--	--	--	--	--	3.09E-04	--	--	4.27E-04	10	No	
Dibenzo(a,h)anthracene	--	1.17E-07	--	--	--	--	--	--	3.09E-07	--	--	4.27E-07	10	No	
Ethylbenzene	2.1	--	--	--	--	--	4.95E-03	--	--	--	--	2.09E+00	10	No	
Ethylene Dibromide	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Fluoranthene	--	2.94E-07	--	--	--	--	--	--	7.73E-07	--	--	1.07E-06	10	No	
Fluorene	--	2.74E-07	--	--	--	--	--	--	7.21E-07	--	--	9.95E-07	10	No	
Formaldehyde	26.3	7.34E-03	1.36E-03	8.11E-05	--	--	--	--	1.93E-02	--	--	2.63E+01	10	Yes	
Hexane	--	1.76E-01	--	--	2.54E-02	--	7.38E-05	--	4.64E-01	--	--	6.65E-01	10	No	
Indeno(1,2,3-c,d)pyrene	--	1.76E-07	--	--	--	--	--	--	4.64E-07	--	--	6.40E-07	10	No	
Manganese	3.0	3.72E-05	--	--	--	--	--	--	9.79E-05	--	--	3.00E+00	10	No	
Mercury	0.0	2.54E-05	--	--	--	--	--	--	6.70E-05	--	--	1.99E-02	10	No	
Methanol	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Methylene Chloride	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Nickel	0.1	2.05E-04	--	--	--	--	--	--	5.41E-04	--	--	1.41E-01	10	No	
Naphthalene	0.2	5.97E-05	2.24E-03	1.34E-04	--	--	--	--	1.57E-04	--	--	2.13E-01	10	No	
PAH	0.3	--	3.82E-03	2.27E-04	--	--	--	--	--	--	--	2.87E-01	10	No	
Phenanthrene	--	1.66E-06	--	--	--	--	--	--	4.38E-06	--	--	6.04E-06	10	No	
Propylene Oxide	1.9	--	--	--	--	--	--	--	--	--	--	1.89E+00	10	No	
Pyrene	--	4.89E-07	--	--	--	--	--	--	1.29E-06	--	--	1.78E-06	10	No	
Selenium	0.1	2.35E-06	--	--	--	--	--	--	6.18E-06	--	--	9.58E-02	10	No	
Styrene	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Toluene	8.5	3.33E-04	4.85E-03	2.89E-04	--	--	1.71E-02	--	8.76E-04	--	--	8.51E+00	10	No	
Vinyl Chloride	--	--	--	--	--	--	--	--	--	--	--	0.00E+00	10	No	
Xylenes	4.2	--	3.33E-03	1.98E-04	--	--	1.13E-01	--	--	--	--	4.29E+00	10	No	
Polycyclic Organic Matter (POM) ^[7]	0.3	--	3.82E-03	2.27E-04	--	--	--	--	--	--	--	2.87E-01	10	No	
Maximum Single HAP	--	--	--	--	footnote 8	--	--	--	--	--	--	26.31	10	Yes	
Total HAP	51.06	0.18	0.03	0.002	0.03	--	0.14	--	0.49	--	--	51.85	25	Yes	

B. NOTES

- [1] Maximum annual emissions for the design scenario were used for each gas turbine. The maximum emission rate for each pollutant is included in the facility total. See Appendix A-2 for additional details.
- [2] For stationary sources which are included in one of the 28 listed categories, the PSD major source permitting threshold is 100 tons/year for each NSR pollutant.
- [3] After determining if the source exceeds the PSD major source threshold, facility emission rates are compared to the Significant Emission Rates to identify which pollutants are subject to PSD review.
- [4] Includes H₂S.
- [5] Piping components associated with the proposed fuel gas system are a potential source of fugitive natural gas emissions. These emissions may include minor quantities of sulfur compounds from the chemical used to odorize the natural gas. Refer to the calculations in Appendix A-8 for additional details.
- [6] CO_{2e} = CO₂ * GWP_{CO2} + CH₄ * GWP_{CH4} + N₂O * GWP_{N2O} + SF₆ * GWP_{SF6}. GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO₂ = 1, GWP CH₄ = 28, N₂O = 265, SF₆ = 23,500.
- [7] Sum of all chemical compounds identified as polycyclic organic matter (POM) in AP-42 Chapter 1, Section 1.4. POM includes polycyclic aromatic hydrocarbon (PAH). Emissions of each individual compound within the POM group are also calculated in the table.
- [8] The maximum single HAP emitted by each emission unit varies. However, the maximum single HAP on a facility-wide basis is formaldehyde.

End of Table

Appendix A-2
Emission Calculations: Mitsubishi Gas Turbine
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. GENERAL INFORMATION			
Combustion Turbine Technology		Mitsubishi M501JAC	
Natural Gas Firing: Maximum CT Heat Input (HHV) ^[A.1]		4,966	MMBtu/hr
Fuel Oil Firing: Maximum CT Heat Input (HHV)		3,495	MMBtu/hr
Design Scenario (100% load, 59°F, Duct Burners On, Inlet Chilling On)			
Design Scenario (100% load, 59°F, No Duct Burners)			
Startup/Shutdown (SUSD) Information			
Annual Hours of SUSD Associated w/ Natural Gas Firing ^[A.2]		644.2	hrs/year
Annual Hours of SUSD Associated w/ Fuel Oil Firing		332.0	hrs/year
Natural Gas			
Maximum Hours of Normal Natural Gas Operation (No SUSD)		8,760	hrs/year
Maximum Hours of Normal Operation (w/ SUSD) ^[A.3]		8,116	hrs/year
(8760 hrs/year - 644 hrs/year)			
Natural Gas + Fuel Oil			
Maximum Hours of Normal Fuel Oil Operation (No SUSD)		720	hrs/year
Maximum Hours of Normal Natural Gas Operation (No SUSD)		8040	hrs/year
Maximum Hours of Normal Fuel Oil Operation (w/ SUSD)		388	hrs/year
Maximum Hours of Normal Natural Gas Operation (w/ SUSD)		7,396	hrs/year
NOTES			
[A.1] Combustion turbine heat input rating (HHV) based on the design scenario (100% load, 59°F, inlet chiller and duct burners on for natural gas firing, and duct burners off for fuel oil firing) . See Mitsubishi performance data.			
[A.2] The maximum annual hours of SUSD are based on the maximum annual duration of all startup and shutdown events across each event types. See Appendix B-3 for additional details.			
[A.3] Maximum Hours of Non-SUSD Operation = Maximum Hours of Total Operation - Estimated Annual Downtime Hours - Maximum Hours of SUSD Operation			

B. EMISSION CALCULATIONS, NATURAL GAS COMBUSTION ONLY: SINGLE TURBINE							
Pollutant	Emission Factor (lb/MMBtu)	Notes	Natural Gas:		Natural Gas:		Worst-Case Annual Emissions (tons/yr) ^[B.10]
			Hourly Emissions (lb/hr) ^[B.6]	Normal Operation (tons/yr) ^[B.8]	SUSD Emissions (tons/yr) ^[B.7]	Remaining Normal Operation (tons/yr) ^[B.9]	
Criteria Pollutants							
NO _x	--	[B.1]	43.00	188.34	23.26	174.49	197.75
CO	--	[B.1]	47.25	206.96	245.11	191.74	436.84
VOC	--	[B.1]	15.00	65.70	73.60	60.87	134.47
SO ₂	--	[B.1]	9.00	39.42	1.81	36.52	39.42
PM	--	[B.1]	42.00	183.96	6.97	170.43	183.96
PM ₁₀	--	[B.1]	42.00	183.96	6.97	170.43	183.96
PM _{2.5}	--	[B.1]	42.00	183.96	6.97	170.43	183.96
Greenhouse Gases							
CO ₂	120.0	[B.2]	595,968.00	2,610,339.84	191,951.36	2,418,388.48	2,610,339.84
CH ₄	2.20E-03	[B.2]	10.95	47.96	3.53	44.43	47.96
N ₂ O	2.20E-04	[B.2]	1.09	4.80	0.35	4.44	4.80
CO ₂ e	--	[B.3]	596,565	2,612,953.48	192,143.55	2,420,809.93	2,612,953.48
Hazardous Air Pollutants							
1,3-Butadiene	4.30E-07	[B.4]	2.14E-03	9.35E-03	6.88E-04	8.67E-03	9.35E-03
Acetaldehyde	4.00E-05	[B.4]	1.99E-01	8.70E-01	6.40E-02	8.06E-01	8.70E-01
Acrolein	6.40E-06	[B.4]	3.18E-02	1.39E-01	1.02E-02	1.29E-01	1.39E-01
Arsenic	1.96E-07	[B.5]	9.74E-04	4.27E-03	3.14E-04	3.95E-03	4.27E-03
Benzene	1.20E-05	[B.4]	5.96E-02	2.61E-01	1.92E-02	2.42E-01	2.61E-01
Beryllium	1.18E-08	[B.5]	5.84E-05	2.56E-04	1.88E-05	2.37E-04	2.56E-04
Cadmium	1.08E-06	[B.5]	5.36E-03	2.35E-02	1.73E-03	2.17E-02	2.35E-02
Chromium	1.37E-06	[B.5]	6.82E-03	2.99E-02	2.20E-03	2.77E-02	2.99E-02
Cobalt	8.24E-08	[B.5]	4.09E-04	1.79E-03	1.32E-04	1.66E-03	1.79E-03
Ethylbenzene	3.20E-05	[B.4]	1.59E-01	0.70	5.12E-02	0.64	0.70
Formaldehyde	--	[B.1]	2.00E+00	8.76	6.44E+00	8.12	14.56
Lead	4.90E-07	[B.5]	2.43E-03	1.07E-02	7.84E-04	9.88E-03	1.07E-02
Manganese	3.73E-07	[B.5]	1.85E-03	8.10E-03	5.96E-04	7.51E-03	8.10E-03
Mercury	2.55E-07	[B.5]	1.27E-03	5.54E-03	4.08E-04	5.14E-03	5.54E-03
Nickel	2.06E-06	[B.5]	1.02E-02	4.48E-02	3.29E-03	4.15E-02	4.48E-02
Naphthalene	1.30E-06	[B.4]	6.46E-03	2.83E-02	2.08E-03	2.62E-02	2.83E-02
PAH	2.20E-06	[B.4]	1.09E-02	4.79E-02	3.52E-03	4.43E-02	4.79E-02
Propylene Oxide	2.90E-05	[B.4]	1.44E-01	6.31E-01	4.64E-02	5.84E-01	6.31E-01
Selenium	2.35E-08	[B.5]	1.17E-04	5.12E-04	3.76E-05	4.74E-04	5.12E-04
Toluene	1.30E-04	[B.4]	6.46E-01	2.83	2.08E-01	2.62	2.83
Xylenes	6.40E-05	[B.4]	3.18E-01	1.39	1.02E-01	1.29	1.39
Other							
NH ₃	--	[B.1]	37.00	162.06	11.92	150.14	162.06
Sulfuric Acid Mist	--	[B.1]	15.00	65.70	4.83	60.87	65.70
NOTES							
[B.1] Emission rate (lb/hr) based on the design scenario (100% load, 59°F, inlet chiller status off, duct burner on at peak firing) . For PM, condensable PM = filterable PM, per OEM estimates, so assumed Filterable PM = PM = PM ₁₀ = PM _{2.5} . See Manufacturer's Performance Data in Appendix B. For formaldehyde SU/SD emissions, the final emission rate derived from the design scenario was conservatively multiplied by a factor of 10 to account for reduced oxidation catalyst efficiency during startup, prior to achieving optimal control performance.							
[B.2] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, Natural Gas (5/14/2024). Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg. CO ₂ factor is two significant figures.							
[B.3] CO ₂ e = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265							
[B.4] Emission factors from AP-42, Chapter 3, Section 3.1, Table 3.1-3.							
[B.5] Metal HAP emissions from natural gas fired combustion turbines are not accounted for in AP-42 Chapter 3. Emission factors from AP-42, Chapter 1, Section 1.4, Table 1.4-4 were used as a surrogate.							
[B.6] Hourly Emissions (lb/hr) = Emission Factor (lb/MMBtu) × Maximum CT Heat Input (HHV, MMBtu/hr).							
[B.7] The manufacturer provided SUSD data for NO _x , CO, PM/PM ₁₀ /PM _{2.5} , VOC, and SO ₂ . For these pollutants, SUSD Emissions (tons/yr) equals the sum of emissions across all SUSD event types reported in Appendix B-3. For other pollutants, SUSD Emissions (tons/yr) = Hourly Emission Rate (lb/hr) × Maximum Hours of SUSD Operation (hrs/yr) × 1 ton/2,000 lbs.							
[B.8] Normal Operation, No SUSD (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Total Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for normal operation of the combustion turbine throughout the year, without the consideration of startups or shutdowns.							
[B.9] Remaining Normal Operation (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Non-SUSD Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for the emissions associated with the remaining duration of normal operations after SUSD has been taken into consideration.							
[B.10] Worst-Case Annual Emissions (tons/yr) represents the highest of the following: (i) Normal Operation (No SUSD) {tons/yr} or (ii) {SUSD Emissions (tons/yr) + Remaining Normal Operation (tons/yr)}.							

Continued on next page

C1. EMISSION CALCULATIONS, FUEL OIL & NATURAL GAS COMBUSTION: SINGLE TURBINE							
FUEL OIL							
Pollutant	Emission Factor (lb/MMBtu)	Notes	Fuel Oil:		Fuel Oil:		Worst-Case Annual Emissions (tons/yr) ^[C1.10]
			Hourly Emissions (lb/hr) ^[C1.6]	Normal Operation (tons/yr) ^[C1.8]	SUSD Emissions (tons/yr) ^[C1.7]	Remaining Normal Operation (tons/yr) ^[C1.9]	
Criteria Pollutants							
NO _x	--	[C1.1]	81.00	29.16	22.58	15.71	38.29
CO	--	[C1.1]	49.17	17.70	486	9.54	495.30
VOC	--	[C1.1]	11.33	4.08	191.39	2.20	193.59
SO ₂	--	[C1.1]	7.00	2.52	0.94	1.36	2.52
PM	--	[C1.1]	93.00	33.48	19.51	18.04	37.55
PM ₁₀	--	[C1.1]	93.00	33.48	19.51	18.04	37.55
PM _{2.5}	--	[C1.1]	93.00	33.48	19.51	18.04	37.55
Greenhouse Gases							
CO ₂	160.0	[C1.2]	559,200.00	201,312.00	92,827.20	108,484.80	201,312.00
CH ₄	6.61E-03	[C1.2]	23.12	8.32	3.84	4.48	8.32
N ₂ O	1.32E-03	[C1.2]	4.62	1.66	0.77	0.90	1.66
CO _{2e}	--	[C1.3]	561,072	201,986.05	93,138.01	108,848.04	201,986.05
Hazardous Air Pollutants							
1,3-Butadiene	1.60E-05	[C1.4]	5.59E-02	2.01E-02	9.28E-03	1.08E-02	2.01E-02
Arsenic	1.10E-05	[C1.5]	3.84E-02	1.38E-02	6.38E-03	7.46E-03	1.38E-02
Benzene	5.50E-05	[C1.4]	1.92E-01	6.92E-02	3.19E-02	3.73E-02	6.92E-02
Beryllium	3.10E-07	[C1.5]	1.08E-03	3.90E-04	1.80E-04	2.10E-04	3.90E-04
Cadmium	4.80E-06	[C1.5]	1.68E-02	6.04E-03	2.78E-03	3.25E-03	6.04E-03
Chromium	1.10E-05	[C1.5]	3.84E-02	1.38E-02	6.38E-03	7.46E-03	1.38E-02
Formaldehyde	--	[C1.1]	1.00E+00	3.60E-01	1.66E+00	1.94E-01	1.85E+00
Lead	1.4E-05	[C1.5]	4.89E-02	1.76E-02	8.12E-03	9.49E-03	1.76E-02
Manganese	7.9E-04	[C1.5]	2.76E+00	9.94E-01	4.58E-01	5.36E-01	0.99
Mercury	1.2E-06	[C1.5]	4.19E-03	1.51E-03	6.96E-04	8.14E-04	1.51E-03
Nickel	4.6E-06	[C1.5]	1.61E-02	5.79E-03	2.67E-03	3.12E-03	5.79E-03
Naphthalene	3.50E-05	[C1.4]	1.22E-01	4.40E-02	2.03E-02	2.37E-02	4.40E-02
PAH	4.00E-05	[C1.4]	1.40E-01	5.03E-02	2.32E-02	2.71E-02	5.03E-02
Selenium	2.5E-05	[C1.5]	8.74E-02	3.15E-02	1.45E-02	1.70E-02	3.15E-02
Other							
NH ₃	--	[C1.1]	28.00	10.08	4.65	5.43	10.08
Sulfuric Acid Mist	--	[C1.1]	12.00	4.32	1.99	2.33	4.32
NOTES							
[C1.1] Emission rate (lb/hr) based on the design scenario (100% load, 59°F, inlet chiller and duct burners on for natural gas firing, and duct burners off for fuel oil firing). For PM, condensable PM = filterable PM, per OEM estimates, so assumed Filterable PM = PM = PM ₁₀ = PM _{2.5} . See Appendix C-4. See Manufacturer's Performance Data in Appendix B. For formaldehyde SU/SD emissions, the final emission rate derived from the design scenario was conservatively multiplied by a factor of 10 to account for reduced oxidation catalyst efficiency during startup, prior to achieving optimal control performance.							
[C1.2] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, Petroleum Products (5/14/2024). Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg. CO ₂ factor is two significant figures.							
[C1.3] CO _{2e} = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265							
[C1.4] Emission factors from AP-42, Chapter 3, Section 3.1, Table 3.1-4.							
[C1.5] Emission factors from AP-42, Chapter 3, Section 3.1, Table 3.1-5.							
[C1.6] Hourly Emissions (lb/hr) = Emission Factor (lb/MMBtu) × Maximum CT Heat Input (HHV, MMBtu/hr).							
[C1.7] The manufacturer provided SUSD data for NO _x , CO, PM/PM ₁₀ /PM _{2.5} , VOC, and SO ₂ . For these pollutants, SUSD Emissions (tons/yr) equals the sum of emissions across all SUSD event types reported in Appendix B-3. For other pollutants, SUSD Emissions (tons/yr) = Hourly Emission Rate (lb/hr) × Maximum Hours of SUSD Operation (hrs/yr) × 1 ton/2,000 lbs.							
[C1.8] Normal Operation (No SUSD) (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Total Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for normal operation (No SUSD) of the combustion turbine throughout the year, without the consideration of startups or shutdowns.							
[C1.9] Remaining Normal Operation (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Non-SUSD Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for the emissions associated with the remaining duration of normal operations after SUSD has been taken into consideration.							
[C1.10] Worst-Case Annual Emissions (tons/yr) represents the highest of the following: (i) Normal Operation (No SUSD) {tons/yr} or (ii) [SUSD Emissions (tons/yr) + Remaining Normal Operation (tons/yr)].							

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C2. NATURAL GAS							
Pollutant	Emission Factor (lb/MMBtu)	Notes	Natural Gas:		Natural Gas:		Worst-Case Annual Emissions (tons/yr) ^[C2.10]
			Hourly Emissions (lb/hr) ^[C2.6]	Normal Operation (tons/yr) ^[C2.8]	SUSD Emissions (tons/yr) ^[C2.7]	Remaining Normal Operation (tons/yr) ^[C2.9]	
Criteria Pollutants							
NO _x	--	[C2.1]	43.00	172.86	23.26	159.01	182.27
CO	--	[C2.1]	47.25	189.95	245.11	174.73	419.83
VOC	--	[C2.1]	15.00	60.30	73.60	55.47	129.07
SO ₂	--	[C2.1]	9.00	36.18	1.81	33.28	36.18
PM	--	[C2.1]	42.00	168.84	6.97	155.31	168.84
PM ₁₀	--	[C2.1]	42.00	168.84	6.97	155.31	168.84
PM _{2.5}	--	[C2.1]	42.00	168.84	6.97	155.31	168.84
Greenhouse Gases							
CO ₂	120	[C2.2]	595,968.00	2,395,791.36	191,951.36	2,203,840.00	2,395,791.36
CH ₄	2.20E-03	[C2.2]	10.95	44.02	3.53	40.49	44.02
N ₂ O	2.20E-04	[C2.2]	1.09	4.40	0.35	4.05	4.40
CO ₂ e	--	[C2.3]	596,565	2,398,190.18	192,143.55	2,206,046.63	2,398,190.18
Hazardous Air Pollutants							
1,3-Butadiene	4.30E-07	[C2.4]	2.14E-03	8.58E-03	6.88E-04	7.90E-03	8.58E-03
Acetaldehyde	4.00E-05	[C2.4]	1.99E-01	7.99E-01	6.40E-02	7.35E-01	7.99E-01
Acrolein	6.40E-06	[C2.4]	3.18E-02	1.28E-01	1.02E-02	1.18E-01	1.28E-01
Arsenic	1.96E-07	[C2.5]	9.74E-04	3.91E-03	3.14E-04	3.60E-03	3.91E-03
Benzene	1.20E-05	[C2.4]	5.96E-02	2.40E-01	1.92E-02	2.20E-01	2.40E-01
Beryllium	1.18E-08	[C2.5]	5.84E-05	2.35E-04	1.88E-05	2.16E-04	2.35E-04
Cadmium	1.08E-06	[C2.5]	5.36E-03	2.15E-02	1.73E-03	1.98E-02	2.15E-02
Chromium	1.37E-06	[C2.5]	6.82E-03	2.74E-02	2.20E-03	2.52E-02	2.74E-02
Cobalt	8.24E-08	[C2.5]	4.09E-04	1.64E-03	1.32E-04	1.51E-03	1.64E-03
Ethylbenzene	3.20E-05	[C2.4]	1.59E-01	6.39E-01	5.12E-02	5.88E-01	0.64
Formaldehyde	--	[C2.1]	2.00E+00	8.04E+00	6.44E+00	7.40E+00	13.84
Lead	4.90E-07	[C2.5]	2.43E-03	9.79E-03	7.84E-04	9.00E-03	9.79E-03
Manganese	3.73E-07	[C2.5]	1.85E-03	7.44E-03	5.96E-04	6.84E-03	7.44E-03
Mercury	2.55E-07	[C2.5]	1.27E-03	5.09E-03	4.08E-04	4.68E-03	5.09E-03
Nickel	2.06E-06	[C2.5]	1.02E-02	4.11E-02	3.29E-03	3.78E-02	4.11E-02
Naphthalene	1.30E-06	[C2.4]	6.46E-03	2.60E-02	2.08E-03	2.39E-02	2.60E-02
PAH	2.20E-06	[C2.4]	1.09E-02	4.39E-02	3.52E-03	4.04E-02	4.39E-02
Propylene Oxide	2.90E-05	[C2.4]	1.44E-01	5.79E-01	4.64E-02	5.33E-01	5.79E-01
Selenium	2.35E-08	[C2.5]	1.17E-04	4.70E-04	3.76E-05	4.32E-04	4.70E-04
Toluene	1.30E-04	[C2.4]	6.46E-01	2.60E+00	2.08E-01	2.39E+00	2.60
Xylenes	6.40E-05	[C2.4]	3.18E-01	1.28E+00	1.02E-01	1.18E+00	1.28
Other							
NH ₃	--	[C2.1]	37.00	148.74	11.92	136.82	148.74
Sulfuric Acid Mist	--	[C2.1]	15.00	60.30	4.83	55.47	60.30
NOTES							
[C2.1] Emission rate (lb/hr) based on the design scenario (100% load, 59°F, inlet chiller and duct burners on for natural gas firing, and duct burners off for fuel oil firing). For PM, condensable PM = filterable PM, per OEM estimates, so assumed Filterable PM = PM = PM ₁₀ = PM _{2.5} . See Appendix C-3. See Manufacturer's Performance Data in Appendix B. For formaldehyde SU/SD emissions, the final emission rate derived from the design scenario was conservatively multiplied by a factor of 10 to account for reduced oxidation catalyst efficiency during startup, prior to achieving optimal control performance.							
[C2.2] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, Natural Gas (5/14/2024). Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg. CO ₂ factor is two significant figures.							
[C2.3] CO ₂ e = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265							
[C2.4] Emission factors from AP-42, Chapter 3, Section 3.1, Table 3.1-3.							
[C2.5] Metal HAP emissions from natural gas fired combustion turbines are not accounted for in AP-42 Chapter 3. Emission factors from AP-42, Chapter 1, Section 1.4, Table 1.4-4 were used as a surrogate.							
[C2.6] Hourly Emissions (lb/hr) = Emission Factor (lb/MMBtu) × Maximum CT Heat Input (HHV, MMBtu/hr).							
[C2.7] The manufacturer provided SUSD data for NO _x , CO, PM/PM ₁₀ /PM _{2.5} , VOC, and SO ₂ . For these pollutants, SUSD Emissions (tons/yr) equals the sum of emissions across all SUSD event types reported in Appendix B-3. For other pollutants, SUSD Emissions (tons/yr) = Hourly Emission Rate (lb/hr) × Maximum Hours of SUSD Operation (hrs/yr) × 1 ton/2,000 lbs.							
[C2.8] Normal Operation (No SUSD) (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Total Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for normal operation (No SUSD) of the combustion turbine throughout the year, without the consideration of startups or shutdowns.							
[C2.9] Remaining Normal Operation (tons/yr) = Hourly Emissions (lb/hr) × Maximum Hours of Non-SUSD Operation (hrs/yr) × 1 ton/2,000 lbs. This accounts for the emissions associated with the remaining duration of normal operations after SUSD has been taken into consideration.							
[C2.10] Worst-Case Annual Emissions (tons/yr) represents the highest of the following: (i) Normal Operation (No SUSD) {tons/yr} or (ii) {SUSD Emissions (tons/yr) + Remaining Normal Operation (tons/yr)}.							

Continued on next page

D. ANNUAL POTENTIAL EMISSIONS COMPARISON: SINGLE TURBINE						
Pollutant	Fuel Oil + Natural Gas		Natural Gas Only		Worst-Case (tons/year)	Worst-Case Scenario ^[D.1]
	Dual Fired: Normal (No SUSD)	Dual Fired: (Normal + SUSD)	NG Fired: Normal (No SUSD)	NG Fired: (Normal + SUSD)		
	(tons/year)	(tons/year)	(tons/year)	(tons/year)		
Criteria Pollutants						
NO _x	202.02	220.57	188.34	197.75	220.57	Dual Fired:
CO	207.65	915.14	206.96	436.84	915.14	Dual Fired:
VOC	64.38	322.66	65.70	134.47	322.66	Dual Fired:
SO ₂	38.70	37.39	39.42	38.33	39.42	NG Fired: Normal (No SUSD)
PM	202.32	199.83	183.96	177.40	202.32000	Dual Fired: Normal
PM ₁₀	202.32	199.83	183.96	177.40	202.32	Dual Fired: Normal
PM _{2.5}	202.32	199.83	183.96	177.40	202.32	Dual Fired: Normal
Greenhouse Gases						
CO ₂	2,597,103.36	2,597,103.36	2,610,339.84	2,610,339.84	2,610,339.84	NG Fired: Normal (No SUSD)
CH ₄	52.34	52.34	47.96	47.96	52.34	Dual Fired: Normal
N ₂ O	6.07	6.07	4.80	4.80	6.07	Dual Fired: Normal
CO ₂ e	2,600,176.23	2,600,176.23	2,612,953.48	2,612,953.48	2,612,953.48	NG Fired: Normal (No SUSD)
Hazardous Air Pollutants						
1,3-Butadiene	2.87E-02	2.87E-02	9.35E-03	9.35E-03	2.87E-02	Dual Fired: Normal
Arsenic	1.78E-02	1.78E-02	4.27E-03	4.27E-03	1.78E-02	Dual Fired: Normal
Benzene	3.09E-01	3.09E-01	2.61E-01	2.61E-01	3.09E-01	Dual Fired: Normal
Beryllium	6.25E-04	6.25E-04	2.56E-04	2.56E-04	6.25E-04	Dual Fired: Normal
Cadmium	2.76E-02	2.76E-02	2.35E-02	2.35E-02	2.76E-02	Dual Fired: Normal
Chromium	4.12E-02	4.12E-02	2.99E-02	2.99E-02	4.12E-02	Dual Fired: Normal
Formaldehyde	8.40E+00	8.40E+00	8.76E+00	8.76E+00	8.76E+00	NG Fired: Normal (No SUSD)
Lead	2.74E-02	2.74E-02	1.07E-02	1.07E-02	2.74E-02	Dual Fired: Normal
Manganese	1.00E+00	1.00E+00	8.10E-03	8.10E-03	1.00E+00	Dual Fired: Normal
Mercury	6.60E-03	6.60E-03	5.54E-03	5.54E-03	6.60E-03	Dual Fired: Normal
Nickel	4.69E-02	4.69E-02	4.48E-02	4.48E-02	4.69E-02	Dual Fired: Normal
Naphthalene	7.00E-02	7.00E-02	2.83E-02	2.83E-02	7.00E-02	Dual Fired: Normal
PAH	9.43E-02	9.43E-02	4.79E-02	4.79E-02	9.43E-02	Dual Fired: Normal
Selenium	3.19E-02	3.19E-02	5.12E-04	5.12E-04	3.19E-02	Dual Fired: Normal
Acetaldehyde	7.99E-01	7.99E-01	8.70E-01	8.70E-01	8.70E-01	NG Fired: Normal (No SUSD)
Acrolein	1.28E-01	1.28E-01	1.39E-01	1.39E-01	1.39E-01	NG Fired: Normal (No SUSD)
Cobalt	1.64E-03	1.64E-03	1.79E-03	1.79E-03	1.79E-03	NG Fired: Normal (No SUSD)
Ethylbenzene	6.39E-01	6.39E-01	6.96E-01	6.96E-01	6.96E-01	NG Fired: Normal (No SUSD)
Propylene Oxide	5.79E-01	5.79E-01	6.31E-01	6.31E-01	6.31E-01	NG Fired: Normal (No SUSD)
Toluene	2.60E+00	2.60E+00	2.83E+00	2.83E+00	2.83E+00	NG Fired: Normal (No SUSD)
Xylenes	1.28E+00	1.28E+00	1.39E+00	1.39E+00	1.39E+00	NG Fired: Normal (No SUSD)
Other						
NH ₃	158.82	158.82	162.06	162.06	162.06	NG Fired: Normal (No SUSD)
Sulfuric Acid Mist	64.62	64.62	65.70	65.70	65.70	NG Fired: Normal (No SUSD)
NOTES						
[D.1] Emissions rates reflect annual operations based on the following scenarios: (1) dual fuel firing (NG and FO) without the consideration of SUSD events, (2) natural gas firing only without the consideration of SUSD events, (3) dual fuel firing (NG and FO) with the consideration of SUSD events, and (4) natural gas firing only with the consideration of SUSD events.						

Appendix A-3
Emission Calculations: Mitsubishi Gas Turbine SU/SD
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION AND GENERAL CALCULATION PARAMETERS	
Combustion Turbine Technology Mitsubishi M501JAC	

B. STARTUP/SHUTDOWN (SU/SD) EVENT INFORMATION - PER TURBINE^[1]									
Parameter	Event Type	Natural Gas				Fuel Oil			
		Cold Start	Warm Start	Hot Start	Shutdown	Cold Start	Warm Start	Hot Start	Shutdown
	Event Duration (min/event)	340.00	280.00	135.00	60.00	540.00	360.00	180.00	60.00
	Event Duration (hrs/event)	5.67	4.67	2.25	1.00	9.00	6.00	3.00	1.00
	Annual Event Frequency (events/yr)	20.00	50.00	70.00	140.00	8.00	20.00	28.00	56.00
	Annual SUSD Hours (hrs/yr)	113.33	233.33	157.50	140.00	72.00	120.00	84.00	56.00
	Average Downtime (hr/event) ^[2]	72.0	8.0	0.0	--	72.0	8.0	0.0	--
	Annual Downtime per SU Event (hrs/year)	1440	400	0	--	576	160	0	
	Total Annual Downtime (hrs/year)	1840							

C. STARTUP/SHUTDOWN (SU/SD) EMISSIONS (LB/EVENT) - PER TURBINE									
Pollutant	Natural Gas				Fuel Oil				
	Cold Start	Warm Start	Hot Start	Shutdown	Cold Start	Warm Start	Hot Start	Shutdown	
NOx	316.00	295.00	208.67	77.50	832.38	658.38	484.38	210.13	
CO	2,914.92	2,892.17	1,642.00	1,231.21	11,173.02	11,068.02	10,963.02	6,318.22	
PM/PM10/PM2.5	101.92	85.92	46.00	31.33	787.25	592.25	397.25	174.07	
VOC	961.04	857.04	538.50	338.83	4,464.96	4,439.96	4,414.96	2,404.29	
SO2	Footnote 2				Footnote 2				

D. STARTUP/SHUTDOWN (SU/SD) EMISSIONS (LB/HR) - PER TURBINE^[3]									
Pollutant	Natural Gas				Fuel Oil				
	Cold Start	Warm Start	Hot Start	Shutdown	Cold Start	Warm Start	Hot Start	Shutdown	
NOx	55.76	63.21	92.74	77.50	92.49	109.73	161.46	210.13	
CO	514.40	619.75	729.78	1,231.21	1,241.45	1,844.67	3,654.34	6,318.22	
PM/PM10/PM2.5	17.99	18.41	20.44	31.33	87.47	98.71	132.42	174.07	
VOC	169.60	183.65	239.33	338.83	496.11	739.99	1,471.65	2,404.29	
SO2	4.77	4.94	5.67	7.33	5.31	5.46	5.92	6.33	

E. STARTUP/SHUTDOWN (SU/SD) EMISSIONS (TONS/YR) - PER TURBINE^{[4],[5]}									
Pollutant	Natural Gas				Fuel Oil				
	Cold Start	Warm Start	Hot Start	Shutdown	Cold Start	Warm Start	Hot Start	Shutdown	
NOx	3.16	7.38	7.30	5.43	3.33	6.58	6.78	5.88	
CO	29.15	72.30	57.47	86.18	44.69	110.68	153.48	176.91	
PM/PM10/PM2.5	1.02	2.15	1.61	2.19	3.15	5.92	5.56	4.87	
VOC	9.61	21.43	18.85	23.72	17.86	44.40	61.81	67.32	
SO2	0.27	0.58	0.45	0.51	0.19	0.33	0.25	0.18	

F. NOTES	
[1] Startup (SU) and shutdown (SD) information provided by Mitsubishi. SU/SD emissions not provided for CO ₂ and SO ₂ on a per event basis.	
[2] SU/SD emissions not directly provided for SO ₂ . Therefore, SO ₂ SUSD emission were conservatively estimated using the design scenario and MECL emission rates and corresponding durations startup events. See application for additional details.	
[3] Hourly SUSD emission rates provided by manufacturer and are based on turbine SUSD curves.	
[4] SU Emissions (tons/year) = SU Emissions (lb/hr) × Event Duration (hrs/event) × Annual Event Frequency (events/year) × 1 ton / 2,000 lbs	
[5] SD Emissions (tons/year) = SD Emissions (lb/hr) × Event Duration (hrs/event) × Annual Event Frequency (events/year) × 1 ton / 2,000 lbs	

Appendix A-4
Emission Calculations: Gas Turbine Summary
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. ANNUAL POTENTIAL EMISSIONS SUMMARY: THREE (3) TURBINES & ASSOCIATED DUCT BURNERS					
Pollutant	<i>Natural Gas Only</i>		<i>Fuel Oil + Natural Gas</i>		Worst-Case
	NG Fired: Normal	NG Fired:	Dual Fired: Normal	Dual Fired:	
	(No SUSD)	Normal + SUSD	(No SUSD)	Normal + SUSD	
	(tons/year)	(tons/year)	(tons/year)	(tons/year)	(tons/year)
Criteria Pollutants					
NO _x	565.02	593.26	606.06	661.70	661.70
CO	620.87	1,310.53	622.94	2,745.41	2,745.41
VOC	197.10	403.41	193.14	967.98	967.98
SO ₂	118.26	114.98	116.10	112.17	118.26
PM	551.88	532.21	606.96	599.50	606.96
PM ₁₀	551.88	532.21	606.96	599.50	606.96
PM _{2.5}	551.88	532.21	606.96	599.50	606.96
Greenhouse Gases					
CO ₂	7,831,020	7,831,020	7,791,310	7,791,310	7,831,020
CH ₄	143.87	143.87	157.01	157.01	157.01
N ₂ O	14.39	14.39	18.20	18.20	18.20
CO ₂ e	7,838,860	7,838,860	7,800,529	7,800,529	7,838,860
Hazardous Air Pollutants					
1,3-Butadiene	0.03	0.03	0.09	0.09	0.09
Arsenic	0.01	0.01	0.05	0.05	0.05
Benzene	0.78	0.78	0.93	0.93	0.93
Beryllium	0.001	0.001	0.002	0.002	0.002
Cadmium	0.07	0.07	0.08	0.08	0.08
Chromium	0.09	0.09	0.12	0.12	0.12
Formaldehyde	26.28	26.28	25.20	25.20	26.28
Lead	0.03	0.03	0.08	0.08	0.08
Manganese	0.02	0.02	3.00	3.00	3.00
Mercury	0.02	0.02	0.02	0.02	0.02
Nickel	0.13	0.13	0.14	0.14	0.14
Naphthalene	0.08	0.08	0.21	0.21	0.21
PAH	0.14	0.14	0.28	0.28	0.28
Selenium	0.002	0.002	0.096	0.096	0.096
Acetaldehyde	2.61	2.61	2.40	2.40	2.61
Acrolein	0.42	0.42	0.38	0.38	0.42
Cobalt	0.005	0.005	0.005	0.005	0.005
Ethylbenzene	2.09	2.09	1.92	1.92	2.09
Propylene Oxide	1.89	1.89	1.74	1.74	1.89
Toluene	8.48	8.48	7.79	7.79	8.48
Xylenes	4.18	4.18	3.83	3.83	4.18
Total HAP	47.38	47.38	48.37	48.37	51.06
Other					
NH ₃	486.18	486.18	476.46	476.46	486.18
Sulfuric Acid Mist	197.10	197.10	193.86	193.86	197.10

B. NOTES

[1] Annual emissions from the combustion turbines were evaluated for both normal operation (No SUSD) (i.e., 8,760 hours/year) and normal operation + startup and shutdown (SU/SD). SU/SD emission rates were not provided for all pollutants such as GHGs, SO₂, and HAPs. See Appendix A-2 for additional details.

End of Calculation

Appendix A-5
Emission Calculations
Canadys Station | Walterboro, South Carolina
Revised July 2026

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Appendix A-6
Emission Calculations: Auxiliary Boiler
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION			
Emission Unit ID	EU05		
Emission Unit Description	Natural Gas Fired Auxiliary Boiler		
Higher Heating Value	1,020	MMBtu/MMscf	[1]
Hours of Operation	2,000	hrs/yr	
Number of Units	1	units	
Heat Input per Boiler	99.8	MMBtu/hr	[2]

B. EQUIPMENT DATA			
Parameter	Total Heat Input Rating (MMBtu/hr)	Fuel Usage (MMscf/hr) ^[3]	Fuel Usage (MMscf/yr) ^[4]
Fuel Usage	99.80	9.78E-02	195.69

C. EMISSION FACTOR CALCULATION FROM CONCENTRATION			
Pollutant	Concentration ^[5]	Molar Weight	Calculated Emission Rate ^[6]
	ppmv	lb/lb-mol	lb/MMBtu
NO _x (as NO ₂)	30	46.01	0.037
CO	50	28.01	0.038

D. EMISSION CALCULATIONS			
<i>Criteria Pollutants</i>			
Pollutant	Emission Factor (lb/MMscf) ^[6,7,8]	Potential Emissions	
		lbs/hr ^[9]	tons/yr ^[10]
NO _x	37.7	3.69E+00	3.69E+00
CO	38.3	3.74E+00	3.74E+00
VOC	5.50	5.38E-01	5.38E-01
SO ₂	0.60	5.87E-02	5.87E-02
PM	7.60	7.44E-01	7.44E-01
PM ₁₀	7.60	7.44E-01	7.44E-01
PM _{2.5}	7.60	7.44E-01	7.44E-01
<i>Greenhouse Gases^[11]</i>			
CO ₂	120,000	1.17E+04	1.17E+04
CH ₄	2.30	2.25E-01	2.25E-01
N ₂ O	0.64	6.26E-02	6.26E-02
CO _{2e}	--	11764.07	1.18E+04

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Hazardous Air Pollutants			
Pollutant	Emission Factor (lb/MMscf)^[12]	Potential Emissions	
		lbs/hr^[9]	tons/yr^[10]
2-Methylnaphthalene	2.40E-05	2.35E-06	2.35E-06
3-Methylchloranthrene	1.80E-06	1.76E-07	1.76E-07
7,12-Dimethylbenz(a)anthracene	1.60E-05	1.57E-06	1.57E-06
Acenaphthene	1.80E-06	1.76E-07	1.76E-07
Acenaphthylene	1.80E-06	1.76E-07	1.76E-07
Anthracene	2.40E-06	2.35E-07	2.35E-07
Arsenic	2.00E-04	1.96E-05	1.96E-05
Benz(a)anthracene	1.80E-06	1.76E-07	1.76E-07
Benzene	2.10E-03	2.05E-04	2.05E-04
Benzo(a)pyrene	1.20E-06	1.17E-07	1.17E-07
Benzo(b)fluoranthene	1.80E-06	1.76E-07	1.76E-07
Benzo(g,h,i)perylene	1.20E-06	1.17E-07	1.17E-07
Benzo(k)fluoranthene	1.80E-06	1.76E-07	1.76E-07
Beryllium	1.20E-05	1.17E-06	1.17E-06
Cadmium	1.10E-03	1.08E-04	1.08E-04
Chromium	1.40E-03	1.37E-04	1.37E-04
Chrysene	1.80E-06	1.76E-07	1.76E-07
Cobalt	8.40E-05	8.22E-06	8.22E-06
Dibenzo(a,h)anthracene	1.20E-06	1.17E-07	1.17E-07
Dichlorobenzene	1.20E-03	1.17E-04	1.17E-04
Fluoranthene	3.00E-06	2.94E-07	2.94E-07
Fluorene	2.80E-06	2.74E-07	2.74E-07
Formaldehyde	7.50E-02	7.34E-03	7.34E-03
Hexane	1.80E+00	1.76E-01	1.76E-01
Indeno(1,2,3-c,d)pyrene	1.80E-06	1.76E-07	1.76E-07
Lead	5.00E-04	4.89E-05	4.89E-05
Manganese	3.80E-04	3.72E-05	3.72E-05
Mercury	2.60E-04	2.54E-05	2.54E-05
Naphthalene	6.10E-04	5.97E-05	5.97E-05
Nickel	2.10E-03	2.05E-04	2.05E-04
Phenanthrene	1.70E-05	1.66E-06	1.66E-06
Pyrene	5.00E-06	4.89E-07	4.89E-07
Selenium	2.40E-05	2.35E-06	2.35E-06
Toluene	3.40E-03	3.33E-04	3.33E-04
Polycyclic Organic Matter (POM)	8.82E-05	8.63E-06	8.63E-06
Maximum HAP	--	1.76E-01	1.76E-01
Total HAPs		1.85E-01	1.85E-01

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E. NOTES		
[1] Higher heating value assumption per AP-42, Chapter 1, Section 1.4, Table 1.4-1, Footnote a.		
[2] Heat input for boiler obtained from OEM boiler design documentation, dated 8/6/2025 (document: DFB-DTB-7749-JF-25 Rev. 00)		
[3] Fuel Usage (MMscf/hr) = Fuel Usage (MMBtu/hr) / Higher Heating Value (MMBtu/MMscf).		
[4] Fuel Usage (MMscf/yr) = Fuel Usage (MMscf/hr) × Hours of Operation (hrs/yr)		
[5] Concentrations and percent oxygen provided for 3% oxygen in Rentech boiler specification data sheet.		
[6] Emission factor calculated using the relationship between natural gas energy content and ideal gas properties, in the following equation: Emission Factor (lb/MMBTU) = pollutant concentration (ppm × 10 ⁻⁶) ÷ molar volume (dscf/lb-mol) × molar weight (lb/lb-mol) × Fd Factor (dscf / MMBtu) × corrected oxygen (20.9 / (20.9 - %O ₂)) with gas properties as follows:		
Input	Value	Units
Molar Volume	379.73	dscf/lb-mol at 1 atm and 60 °F
Fd Factor	8,710	dscf/MMBtu (for natural gas, App. F to 40 CFR 75)
Corrected Oxygen	3	percent
where Fd is a factor representing a ratio of the volume of dry flue gases generated to the caloric value of the fuel combusted.		
[7] Emission factors from AP-42, Chapter 1, Section 1.4, Tables 1.4-1 and 1.4-2, for Large Boilers greater than 100 MMBTU/hr with flue gas recirculation.		
[8] Total PM emission factor is sum of filterable and condensable. Conservatively set PM ₁₀ , PM _{2.5} equal to total PM.		
[9] Potential Emissions (lbs/hr) = Emission Factor (lb/MMscf) × Potential Facility-Wide Natural Gas Usage (MMscf/hr).		
[10] Potential Emissions (tons/yr) = Emission Factor (lb/MMscf) × Limited Facility-Wide Natural Gas Usage (MMscf/yr) × 1 ton/2,000 lbs.		
[11] Emission factors from AP-42, Chapter 1, Section 1.4, Table 1.4-2. The boiler will be equipped with a low NOx burner. $CO_{2e} = CO_2 \times GWP_{CO_2} + CH_4 \times GWP_{CH_4} + N_2O \times GWP_{N_2O}$. GWP values are from 40 CFR Part 98, Subpart A, Table A.1 (07/25)		
[12] Emission factors from AP-42, Chapter 1, Section 1.4, Tables 1.4-3 and 1.4-4. Constituents of POM (and PAH) are listed individually, as well as summed for total POM.		

End of Calculation

Appendix A-7
Emission Calculations: Emergency Generator and Fire Pumps
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION AND GENERAL CALCULATION PARAMETERS				
Emission Unit ID	EU06 - EU08		EU09A, EU09B	
Emission Unit Description	Diesel-fired emergency generator set		Diesel-fired fire water pump engine	
Engine Rated Capacity	2760	kW	315	hp
	3701.16	hp		
Diesel Heat Content	19,300	Btu/lb	19,300	Btu/lb
	0.0193	MMBtu/lb		
Average Fuel Density	7.1	lb/gal	7.1	lb/gal
	168	gal/hr ^[1]		
Fuel Consumption Rate	23.02	MMBtu/hr	2.06	MMBtu/hr
	500	hrs/engine		
Max Actual Annual Run Time	3	engines	2	engines
Number of Emergency Engines	0.0015	weight %	0.0015	weight %
Diesel Sulfur Content	84,000	gal/year	7,500	gal/year
Fuel consumed per year				

B. EMISSION CALCULATIONS										
Criteria Pollutants										
Pollutant	Emission Factor: Generator		Emission Factor: Fire Pump		Emergency Generators		Fire Pumps		Engine Total	
	g/hp-hr	lb/hp-hr	g/kW-hr	lb/hp-hr	lb/hr (single engine)	tons/year (all engines)	lb/hr (single engine)	tons/year (both engines)	lb/hr	tons/year
NO _x ^[1]	6.38	1.41E-02	3.61	5.93E-03	52.06	39.04	1.869	0.93	159.91	39.98
CO ^[1]	0.76	1.68E-03	0.60	9.86E-04	6.20	4.65	0.311	0.16	19.23	4.81
VOCs ^[1]	0.14	3.09E-04	0.08	1.32E-04	1.14	0.86	0.041	0.02	3.51	0.88
SO ₂ ^[4]					0.04	0.03	0.003	0.002	0.11	0.03
PM ^[5]	0.050	1.10E-04	0.10	1.64E-04	0.41	0.31	0.052	0.03	1.33	0.33
PM ₁₀ ^[5]	0.058	1.27E-04	0.12	1.90E-04	0.47	0.35	0.060	0.03	1.53	0.38
PM _{2.5} ^[5]	0.058	1.27E-04	0.12	1.90E-04	0.47	0.35	0.060	0.03	1.53	0.38

Greenhouse Gases							
Pollutant	Emission Factor (lb/MMBtu)	Emergency Generator		Fire Pump		Engine Total	
		lb/hr (single engine)	tons/year (all engines)	lb/hr (single engine)	tons/year (both engines)	lb/hr	tons/year
CO ₂ ^[6]	163.05	3,754	2,815	335	168	11931.29	2,983
CH ₄ ^[7]	6.61E-03	0.15	0.11	0.01	0.01	0.48	0.12
N ₂ O ^[7]	1.32E-03	0.03	0.02	0.003	0.001	0.10	0.02
CO _{2e} ^[8]	--	3,766	2,824	336	168	11970	2,993
Hazardous Air Pollutants							
Pollutant	Emission Factor ^[9] lb/MMBtu	Emergency Generator		Fire Pump		Engine Total	
		lb/hr (single engine)	tons/year (all engines)	lb/hr (single engine)	tons/year (both engines)	lb/hr	tons/year
Benzene	7.76E-04	1.79E-02	1.34E-02	1.60E-03	7.98E-04	5.68E-02	1.42E-02
Toluene	2.81E-04	6.47E-03	4.85E-03	5.78E-04	2.89E-04	2.06E-02	5.14E-03
Xylenes	1.93E-04	4.44E-03	3.33E-03	3.97E-04	1.98E-04	1.41E-02	3.53E-03
Formaldehyde	7.89E-05	1.82E-03	1.36E-03	1.62E-04	8.11E-05	5.77E-03	1.44E-03
Acetaldehyde	2.52E-05	5.80E-04	4.35E-04	5.18E-05	2.59E-05	1.84E-03	4.61E-04
Acrolein	7.88E-06	1.81E-04	1.36E-04	1.62E-05	8.10E-06	5.77E-04	1.44E-04
Naphthalene	1.30E-04	2.99E-03	2.24E-03	2.67E-04	1.34E-04	9.51E-03	2.38E-03
PAH	2.21E-04	5.09E-03	3.82E-03	4.54E-04	2.27E-04	1.62E-02	4.04E-03
Total HAPs	--	3.94E-02	2.96E-02	3.52E-03	1.76E-03	1.25E-01	3.13E-02

C. NOTES	
[1] Generator emissions based on surrogate manufacturer's data sheet (100% load, mission critical, site variation emissions) for a Caterpillar 3516C. Fire water pump engine emissions based on surrogate manufacturer's data sheet for a Clarke JU6H-UFAD98 (includes a John Deere engine). Engine power rating associated with the 2,500 kW generator.	
[2] Value taken from AP-42, Chapter 3.4.	
[3] 500 hours/year of operation are used for potential emission calculations, although operation during an emergency is unlimited. 500 hours/year is based on EPA Guidance "Calculating Potential to Emit (PTE) for Emergency Generators," September 6, 1995.	
[4] Based on ULSD sulfur content of 15 ppm and fuel consumption rate.	
[5] A PM emission factor of 0.05 g/hp-hr was provided in the manufacturer's specifications for the emergency generator. However, the specifications do not state whether this emission factor includes both filterable and condensable PM. Therefore, for PM ₁₀ and PM _{2.5} , the emission factor used in the calculations was conservatively increased by using the ratio of filterable PM ₁₀ to condensable PM calculated using the values provided in Table 3.4-2 of AP-42, Chapter 3.4. PM _{2.5} was assumed equal to PM ₁₀ . No adjustment was made for PM since PM does not include condensable particulates per EPA guidance.	
[6] Emission factor taken from 40 CFR Part 98 Subpart C, Table C-1 (07/2025) for distillate fuel oil No. 2. Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg.	
[7] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, Petroleum Products (07/2025). Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg.	
[8] CO _{2e} = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265	
[9] Emission factors taken from Table 3.4-3 and Table 3.4-4 of AP-42, Chapter 3.4.	

End of Calculation

Appendix A-8
Emission Calculations: Fuel System Piping Components
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION	
Emission Unit ID	EU10
Emission Unit Description	Natural Gas Fuel System Piping Components

B. FUGITIVE EMISSION FACTORS ^{[1],[2]}			
Components	Number of Components	Emission Factor per Component	Emission Rate
		kg/hr-source	kg TOC/hr
<i>Gas Service</i>			
Valve	960	4.50E-03	4.3
Connector	465	2.00E-04	0.09
Relief Valve	75	8.80E-03	0.7

C. GAS COMPOSITION^[3]				
Chemical Constituents	Molecular Weight	Mol %	Normalized Mol %	Wt %
	g/mol			
Hydrogen	2	0.01%	0.01%	0.001%
Oxygen	32	0.02%	0.02%	0.037%
Nitrogen	28	0.50%	0.50%	0.820%
Hydrogen Sulfide	34	0.10%	0.10%	0.199%
Carbon Dioxide	44	0.64%	0.64%	1.650%
Methane	16	94.07%	93.78%	88.172%
Ethane	30	4.60%	4.59%	8.084%
Propane	44	0.27%	0.27%	0.696%
Isobutane	58	0.03%	0.03%	0.102%
n-Butane	58	0.03%	0.03%	0.102%
Isopentane	72	0.01%	0.01%	0.042%
n-Pentane	72	0.01%	0.01%	0.042%
Hexanes Plus	86	0.01%	0.01%	0.050%
Helium	2	0.01%	0.01%	0.001%
Total	--	100.31%	100.00%	100.00%
TOC (wt %)	97.29%			
VOC (wt %)	1.03%			
Normalized VOC (wt %) ^[4]	1.06%			
Normalized Hexane (wt %) ^[4]	0.05%			
Normalized CO ₂ (wt%) ^[4]	1.70%			
Normalized CH ₄ (wt%) ^[4]	90.63%			

D. FUGITIVE EMISSIONS FROM NATURAL GAS		
Pollutant	Emissions	Emissions
TOC	11.18	48.99
VOCs	1.19E-01	5.21E-01
Hexane ^[5]	5.79E-03	2.54E-02
Methyl Mercaptan ^[6]	1.07E-04	4.70E-04
CO ₂	1.90E-01	8.31E-01
CH ₄	10.14	44.39
CO _{2e} ^[7]	283.99	1243.88

E. NOTES
[1] Emission factors taken from Table 2-4 in EPA document titled <i>Protocol for Equipment Leak Emission Estimates</i> - November 1995.
[2] The number of components is an estimate based on component counts at a sister facility.
[3] Gas composition data obtained from representative gas composition analysis conducted by Saybolt Laboratories in 2021.
[4] Normalized Pollutant (wt %) = Pollutant (wt %) / TOC (wt %)
[5] Classified as an individual South Carolina toxic air pollutant (TAP).
[6] Saybolt gas analysis measured 6.4 mg/kg of total sulfur. To estimate methyl mercaptan, concentration was conservatively calculated assuming all measured sulfur was from methyl mercaptan. The ratio of molar weights was used to convert the sulfur-only emission rate to a methyl mercaptan emission rate. Calculation: Methyl mercaptan (lb/hr) = 6.4 mg/kg of S / (10 ⁶) * TOC (lb/hr) * (48.11 lb/lb-mol methyl mercaptan) / (32.066 lb/lb-mol sulfur)
[7] CO _{2e} = CO ₂ * GWP _{CO2} + CH ₄ * GWP _{CH4} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28

End of Calculation

Appendix A-9a
Emission Calculations: Fuel Oil Storage Tanks
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. TANK AND LOCAL INFORMATION	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Emission Unit ID	EU11	EU12	EU13	EU14A	EU14B	
Emission Unit Description	Generator Belly Tank	Generator Belly Tank	Generator Belly Tank	Fire Water Pump Belly Tank	Fire Water Pump Belly Tank	
Product Stored	Diesel	Diesel	Diesel	Diesel	Diesel	
Shell Color	Black	Black	Black	Black	Black	
Roof Color	Black	Black	Black	Black	Black	Tank color indicated on cut sheet for fire water pump design, and assumed same for both belly tanks.
Tank Shell Length, L _s (ft)	8.60	8.60	8.60	3.50	3.50	
Effective Height, H _e (ft)	7.07	7.07	7.07	3.14	3.14	AP-42, Ch. 7.1, Eqn. 1-15
Tank Diameter, D (ft)	9.00	9.00	9.00	4.00	4.00	
Tank Effective Diameter, D _e (ft)	9.93	9.93	9.93	4.22	4.22	Dimensions were assumed so that the total volume will equal 4,000 gallons. In reality, the tank will be a rectangular belly tank.
Tank Shell Radius, R _s (ft)	4.50	4.50	4.50	2.00	2.00	AP-42, Ch. 7.1, Eqn. 1-14
Tank Cone Roof Slope, S _θ (ft/ft)	0.0625	0.0625	0.0625	0.0625	0.0625	Calculated
Tank Volume, V (ft ³)	535	535	535	43	43	AP-42, Ch. 7.1, Eqn 1-16, Note 1 (default assumption for cone roof used). In reality, the generator will sit on top of the tank.
Tank Volume, V (gal)	535	535	535	43	43	Calculated
						Design volume for generator belly tank is 4,000 gallons, and for fire water pump belly tank is 300 gallons.

B. OTHER TANK PARAMETERS	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Average Ambient Temp., T _{AA} (°F)	66	66	66	66	66	AP-42, Ch. 7.1, Eqn. 1-30 and Table 7.1-7 for Charleston, SC.
Storage Temp., T _B (°F)	66	66	66	66	66	Ambient
Storage Temp., T _B (°R)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated T (°R) = T (°F) + 460
Local Atmospheric Pressure, P _A (psia)	14.68	14.68	14.68	14.68	14.68	AP-42, Ch. 7.1, Eqn. 1-5 and Table 7.1-7 for Charleston, SC.
Vapor Molecular Weight, (M _v) (lb/lb-mol)	130	130	130	130	130	AP-42, Ch. 7.1, Table 7.1-2, No. 2 Fuel Oil (Diesel)
Throughput, Q (gal/yr)	84,000	84,000	84,000	7,500	7,500	Based on 500 hours/year of operation and a peak fuel consumption rate for each engine, shown in Appendix B-8.
Throughput, Q (bbl/yr)	#N/A	#N/A	#N/A	#N/A	#N/A	Conversion of gallons to barrels
% of Year Used	100	100	100	100	100	Worst case
Paint Solar Absorbance, α (dimensionless) Table 7.1-6	0.97	0.97	0.97	0.97	0.97	AP-42 Table 7.1-6 (For New Black Shell and Roof)
Solar Insolation, I (Hr·ft ² /day)	1,443	1,443	1,443	1,443	1,443	AP-42, Ch. 7.1, Table 7.1-7 for Charleston, SC.
Is Tank Welded? (Y/N)	Y	Y	Y	Y	Y	Assumption
Breather Vent Pressure Setting (default = -0.03), P _{BV} (psig)	0.03	0.03	0.03	0.03	0.03	AP-42, Ch. 7.1, Eqn. 1-10
Breather Vent Vacuum Setting (default = -0.03), P _{BV} (psig)	-0.03	-0.03	-0.03	-0.03	-0.03	AP-42, Ch. 7.1, Eqn. 1-10
Breather Vent Pressure Setting Range, ΔP _B (psig)	0.06	0.06	0.06	0.06	0.06	AP-42, Ch. 7.1, Eqn. 1-10
Maximum Liquid Height, H _{LX} (ft)	7.07	7.07	7.07	3.14	3.14	For horizontal tanks = to the effective height (H _e), per AP-42, Ch. 7.1, Eqn. 1-37
Average Liquid Height, H _L (ft)	3.53	3.53	3.53	1.57	1.57	Half of Max
Tank Maximum Liquid Volume V _{LX} (ft ³)	450	450	450	39	39	AP-42, Ch. 7.1, Eqn. 60-4

C. TANK TEMPERATURE AND TURNOVER	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Tank Roof Height, H _R (ft)	0.28	0.28	0.28	0.13	0.13	AP-42, Ch. 7.1, Eqn. 1-18
Roof Outage, H _{RO} (ft)	0.09	0.09	0.09	0.04	0.04	AP-42, Ch. 7.1, Eqn. 1-17
Vapor Space Outage, H _{VO} (ft)	3.53	3.53	3.53	1.57	1.57	AP-42, Ch. 7.1, Eqn. 1-16 (H _{VO} = H _e /2)
Average Liquid Surface Temperature, T _{LA} (°R)	#N/A	#N/A	#N/A	#N/A	#N/A	AP-42, Ch. 7.1, For insulated tanks, T _{LA} is based on T _B (Eqn. 8-2)
Average Liquid Surface Temperature, T _{LA} (°F)	66	66	66	66	66	Calculated T (°F) = T (°R) - 460
Daily Ambient Temperature Range, ΔT _A (°R)	18.70	18.70	18.70	18.70	18.70	AP-42, Ch. 7.1, Eqn. 1-11 and Table 7.1-7 for Charleston, SC.
Vapor Temperature Range, ΔT _V (°R)	41.1	41.1	41.1	41.1	41.1	Calculated, AP-42, Ch. 7.1, Eqn. 1-7
Maximum Liquid Surface Temperature, T _{LX} (°R)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Figure 7.1-17
Maximum Liquid Surface Temperature, T _{LX} (°F)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated T (°F) = T (°R) - 460
Minimum Liquid Surface Temperature, T _{LX} (°R)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Figure 7.1-17
Minimum Liquid Surface Temperature, T _{LX} (°F)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated T (°F) = T (°R) - 460
Stock Turnover Rate, N (turnovers/yr)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Eqn. 60-3

D. VAPOR PRESSURE - Antoine Equation	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Vapor Pressure Equation Constant -- A	12.101	12.101	12.101	12.101	12.101	AP-42, Ch. 7.1 Antoine Coefficients from Table 7.1-2
Vapor Pressure Equation Constant -- B	8,907	8,907	8,907	8,907	8,907	AP-42, Ch. 7.1 Antoine Coefficients from Table 7.1-2
Vapor Pressure at Maximum Liquid Surface Temperature, P _{VX} (psia)	#N/A	#N/A	#N/A	#N/A	#N/A	AP-42, Ch. 7.1, Eqn. 1-25
Vapor Pressure at Average Liquid Surface Temperature, P _{VA} (psia)	#N/A	#N/A	#N/A	#N/A	#N/A	AP-42, Ch. 7.1, Eqn. 1-25
Vapor Pressure at Minimum Liquid Surface Temperature, P _{VN} (psia)	#N/A	#N/A	#N/A	#N/A	#N/A	AP-42, Ch. 7.1, Eqn. 1-25

E. STANDING STORAGE LOSSES	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Tank Vapor Space Volume, V _V (ft ³)	273.6	273.6	273.6	22.0	22.0	Calculated, AP-42, Ch. 7.1, Eqn. 1-3 (uses effective diameter D _e)
Stock Vapor Density, W _V (lb/ft ³)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Eqn. 1-22
Daily Vapor Pressure Range, ΔP _V (psi)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Eqn. 1-9
Vapor Expansion Factor, K _E (dimensionless)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Eqn. 1-5
Vapor Saturation Factor, K _S (dimensionless)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Eqn. 1-21
Total Standing Losses, L _S (lb/yr)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Eqn. 1-2

F. WORKING LOSS	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Net Working Loss Throughput, V ₀ (ft ³ /yr)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Eqn. 1-35, Note 1
Working Loss Turnover Factor, K _T (dimensionless)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Eqn. 1-35; K _T = (180+N)/6N, for N>36
Working Loss Product Factor, K _P (dimensionless)	1	1	1	1	1	K _P = 1 for organic liquids other than crude oils (AP-42, 7.1-28)
Vent Setting Correction Factor, K _V (dimensionless)	1	1	1	1	1	K _V = 1 for vent setting range up to ±0.03 psig (AP-42, 7.1-28)
Total Working Losses, L _W (lb/yr)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Eqn. 1-35

G. TOTAL ANNUAL EMISSIONS	Generator Belly Tank No. 1	Generator Belly Tank No. 2	Generator Belly Tank No. 3	Fire Water Pump Belly Tank No. 1	Fire Water Pump Belly Tank No. 2	NOTES
Total VOC Losses (lb/yr)	#N/A	#N/A	#N/A	#N/A	#N/A	Calculated, AP-42, Ch. 7.1, Eqn. 1-1
Total VOC Losses (ton/yr)	#N/A	#N/A	#N/A	#N/A	#N/A	Converting pounds to tons

End of Calculation

Appendix A-9b
Emission Calculations: Fuel Oil Storage Tanks
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION		
Parameter	Input	Notes
Emission Unit ID	EU15, EU16	
Emission Unit Description	Large Fuel Oil Tank#1 and #2	
Tank Type	Vertical Fixed Roof Tank	
City, State	Walterboro, South Carolina	
Meteorological Location	Charleston, SC	
Chemical Name	No. 2 Fuel Oil (Diesel)	
Tank Volume	3,000,000 gallons	[1]
Annual Chemical Name	No. 2 Fuel Oil (Diesel)	
Annual Throughput	32,000,000 gal/year/tank	[2]

B. EMISSIONS ESTIMATES OBTAINED FROM EPA TANKS 5.1		
Annual Standing Losses (lb/yr)	192.06	[3]
Annual Working Losses (lb/yr)	815.14	[3]
Annual Total Losses (lb/yr)	1007.20	[3]
Annual Total Losses (ton/yr)	0.50	[4]
Number of Tanks	2	
Total Annual Losses for both tanks (ton/year)	1.01	

C. SUMMARY OF TANK CHARACTERISTICS USED FOR EPA TANKS 5.1		
Tank Shape	Cylinder	
Shell Height (ft)	40	[5]
Shell Diameter (ft)	120	[5]
Maximum Liquid Height (ft)	40	
Average Liquid Height (ft)	40	[5]
Minimum Liquid Height (ft)	0	
Roof Type	Dome	[5]
Vacuum Setting (psig)	-0.03	
Pressure Setting (psig)	0.03	
Vapor Space Pressure at Normal Operating Conditions (psig)	0	
Is Tank Insulated?	Not Insulated	
Tank Dome Roof Radius (ft)	120	[5]
Is Tank Equipped with a Control Device?	No Control Device	
Liquid Bulk Temperature Calculation Method	AP-42 Calculation	
Tank Bottom Type	flat	
Liquid Heel Type at Tank Minimum	none	
Shell Color/Shade	White	[6]
Shell Condition	New	[6]
Roof Color/Shade	White	[6]
Roof Condition	New	[6]

Continued on next page

D. SUMMARY OF EPA TANKS 5.1 CALCULATION OUTPUT		
Chemical Category of Liquid	Petroleum Liquids	
Sum of Increases in Liquid Level Method	AP-42 Calculation	
Working Loss Turnover Factor Method	AP-42 Calculation	
Annual Chemical Name	No. 2 Fuel Oil (Diesel)	
Annual Standing Losses (lb/yr)	192.06	
Annual Working Losses (lb/yr)	764.20	
Annual Vapor Space Volume (cu ft)	93,088.77	
Annual Stock Vapor Density (lb/cu ft)	0.0002	
Annual Average Vapor Space Expansion Factor	0.0297	
Annual Average Vented Vapor Saturation Factor	1.00	
Effective Diameter (ft)	120	
Vapor Space Outage (ft)	8.231	
Average Liquid Height (ft)	40	
Roof Outage (ft)	8.231	
Dome Radius (ft)	120	
Shell Radius (ft)	60	
Annual Average Vapor Molecular Weight (lb/lb-mole)	130	
Annual Average Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	0.008	
Annual Average Liquid Surface Temp (°R)	527.380	
Annual Average Ambient Temp (°R)	525.72	
Liquid Bulk Temperature (°R)	526.46	
Tank Paint Solar Absorptance (Shell)	0.17	
Tank Paint Solar Absorptance (Roof)	0.17	
Annual Average Vapor Temperature Range (°R)	17.739	
Annual Average Daily Vapor Pressure Range (psia)	0.002	
Breather Vent Press. Setting Range (psia)	0.06	
Annual Average Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia)	0.007	
Annual Average Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia)	0.010	
Annual Average Min. Liquid Surface Temp. (°R)	522.945	
Annual Average Max. Liquid Surface Temp. (°R)	531.814	
Annual Average Daily Ambient Temp. Range (°R)	18.7	
Vapor Space Pressure at Normal Operating Conditions (psig)	0	
Annual Throughput (gal/yr)	32,000,000 gal/year/tank	
Annual Turnovers	9.455	
Working Loss Turnover Factor	1	
Maximum Liquid Height (ft)	40	
Minimum Liquid Height (ft)	0	
Working Loss Product Factor	1	
Vent Setting Correction Factor	0.998	
Annual Sum of Increases in Liquid Level (ft/yr)	378.199	

E. NOTES
[1] Project to include two (2) 3-million gallon fuel oil storage tanks.
[2] Maximum annual throughput estimated based on fuel oil needed for maximum fuel oil operation for the three CTs, divided between the two 3-million gallon tanks:
[3] VOC losses were calculated using EPA TANKS 5.1.
[4] Unit conversion: 2000 lbs/ton
[5] Dimensions for domed fixed roof tank result in 3-million gallon tank volume, cylindrical shape, based on API 650 standard sizes. As roof radius not yet known, tank diameter was used in its place, per AP-42 Chapter 7.
[6] Tank shell and roof will be new and white.

End of Calculation

Appendix A-9c
Emission Calculations: Fuel Oil Storage Tanks
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION		
Parameter	Input	Notes
Emission Unit ID	EU15, EU16	
Emission Unit Description	Large Fuel Oil Tank#1 and #2	
Parameters calculated by TANKS ^[1]		
Annual Average Vapor Molecular Weight (lb/lb-mole)	130	
Annual Average Liquid Surface Temp (°R)	527.38	
Annual Throughput (gal/yr)	32,000,000 gal/year/tank	
Annual Turnovers	9.45	
Annual Standing Losses (lb/yr)	192.06	
Annual Working Losses (lb/yr)	764.20	
Total Routine Losses (lb/yr)	956.26	
Working Losses Per Single Turnover (lb/turnover)	80.82	<i>Annual Working Losses ÷ Annual Turnovers</i>

B. VAPOR PRESSURE CALCULATIONS						
Constituents	Vapor Pressure Coefficient A ^[2] (dimensionless)	Vapor Pressure Coefficient B ^[2] (Deg C)	Vapor Pressure Coefficient C ^[2] (Deg C)	True Vapor pressure (P _{VA}) at T _{LA} ^[3] (psia)	Weight fraction in Fuel ^[4] Fraction	Basis Weight of Constituent (lbs)
1,2,4 Trimethylbenzene	7.04	1,573	209	1,558	1.00	1,000
Ethylbenzene	6.95	1,419	213	2,082	0.013	13.0
Hexane	6.88	1,172	224	4,038	1.00E-04	0.100
Toluene	7.02	1,378	223	2,929	0.032	32.0
Benzene	6.91	1,221	221	3,635	8.00E-04	0.800
Xylenes	7.02	1,474	218	2,132	0.290	290
Other				0.019	98.7	98,664
Total					100	100,000

C. VAPOR FRACTION CALCULATIONS						
Constituents	Molecular Weight (M _i) ^[2] (lb/lb-mole)	Basis Moles of Constituent (lb-mole)	Liquid Mole Fraction (X _i) Fraction	Partial Pressure (P _i) ^[5] (psia)	Vapor Mole Fraction (Y _i) ^[6] Fraction	Molecular Weight of the Vapor Stock (M _v) ^[7] (lb/lb-mole)
1,2,4 Trimethylbenzene	120	8.32	0.016	24.2	0.645	77.5
Ethylbenzene	106	0.122	2.28E-04	0.475	0.013	1.35
Hexane	86.2	1.16E-03	2.16E-06	8.74E-03	2.33E-04	0.020
Toluene	92.1	0.347	6.48E-04	1.90	0.051	4.66
Benzene	78.1	0.010	1.91E-05	0.069	1.85E-03	0.145
Xylenes	106	2.73	5.09E-03	10.9	0.290	30.7
Other	188	525	0.978	0.019	5.05E-04	0.095
Total		536	1.00	37.5	1.00	114

D. SPECIATED EMISSION RATES				
Constituents	Total Annual Emissions ^[8] (lb/yr)	Daily Emissions from Standing Losses ^[9] (lb/day)	Emissions from One Turnover ^[10] (lb/turnover)	Total Daily Emissions ^[11] (lb/day)
1,2,4 Trimethylbenzene	569.91	0.314	48.17	48.48
Ethylbenzene	9.90	0.005	0.84	0.84
Hexane	0.15	0.000	0.01	0.01
Toluene	34.28	0.019	2.90	2.92
Benzene	1.06	0.0006	0.09	0.09
Xylenes	226.13	0.124	19.11	19.24

E. NOTES	
[1] Details of TANKS calculation are shown in Appendix A-9b.	
[2] Constituent properties and coefficients were obtained from AP-42 Section 7-1, Table 7.1-3.	
[3] Vapor pressure was calculated at the tank conditions for each constituent using Antoine's equation, as shown in AP-42 Section 7.1, Equation 1-28.	
[4] Assumed weight fraction for fuel oil based on permit application for similar facility.	
[5] Partial Pressure (psia) = True Vapor Pressure of constituent × Liquid Mole Fraction of constituent, as shown in AP-42 Section 7.1, Equation 1-25.	
[6] Vapor Mole Fraction = Partial pressure of each Constituent ÷ Total Vapor Pressure.	
[7] MW of the Vapor Stock (lb/lb-mole) = MW of species (lb/lb-mole) × Vapor Mole Fraction of species	
[8] Speciated Total Annual Emissions (lb/year) = Total Annual Emissions (lb/year) ÷ Annual Average Vapor MW (lb/lb-mole) × MW of Species (lb/lb-mole) × Vapor Mole Fraction	
[9] Daily Emissions from Standing Losses (lb/day) = Annual Standing Losses (lb/year) ÷ (365 days/year) × Constituent Fraction	
[10] Emissions from One Turnover (lb/turnover) = Working Losses Per Single Turnover (lb/turnover) × Constituent Fraction	
[11] Total Daily Emissions (lb/day) = Daily Emissions from Standing Losses (lb/day) + Emissions from One Turnover (lb/turnover)	

End of Calculation

Appendix A-10
Emission Calculations: Circuit Breakers
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION AND GENERAL CALCULATION PARAMETERS			
Emission Unit ID	EU17		
Emission Unit Description	SF6 Circuit Breakers		
SF ₆ Leak Rate =	0.5%	[1]	
25 kV Breakers			
Number of Circuit Breakers	8	breakers	[2]
kV Rating	25	kV	
Quantity of SF ₆ Gas in Full Charge =	25	lb/breaker	
121 kV Breakers			
Number of Circuit Breakers	6	breakers	[2]
kV Rating	121	kV	
Quantity of SF ₆ Gas in Full Charge =	119	lb/breaker	
230 kV Breakers			
Number of Circuit Breakers	52	breakers	[2]
kV Rating	230	kV	
Quantity of SF ₆ Gas in Full Charge =	226	lb/breaker	

B. SF₆ EMISSION RATES			
Pollutant	Annual Emission Rate	SF₆ Global Warming Potential^[3]	Annual CO₂e Emission Rate
	tons/year		tons/year
SF ₆	3.17E-02	23,500	743.89

C. NOTES	
[1] From EPA's technical paper titled, "SF6 Leak Rates from High Voltage Circuit Breakers - U.S. EPA Investigates Potential Greenhouse Gas Emission Source - by J. Blackman, Program Manager, U.S. EPA and M. Averyt, ICF Consulting, and Z. Taylor, ICF Consulting". Used the worst-case estimate of 0.5% per year.	
[2] Circuit breaker type and quantity were provided by DESC, along with the SF6 charge for the 230 kV breaker. The SF6 charges for the two smaller breaker sizes were estimated based on the 230 kV breaker and a ratio of the circuit breaker kV size.	
[3] CO ₂ e = SF ₆ * GWP _{SF6} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). SF ₆ = 23,500.	

End of Calculation

Appendix A-11
Emission Calculations: Fuel Gas Heaters
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION				
Emission Unit Description	Fuel Gas (FG) Heaters, Natural Gas Fired		Small Low Pressure Heater, Natural Gas Fired	
Emission Unit IDs	EU18 - EU20		EU21	
Heat Input per Heater ^[1]	20.0	MMBtu/hr	3.0	MMBtu/hr
Number of Units	3	units	1	units
Hours of Operation	8,760	hrs/yr	8,760	hrs/yr
Higher Heating Value ^[2]	1,020	MMBtu/MMscf	1,020	MMBtu/MMscf

B. FUEL USAGE DATA			
Parameter	Fuel Usage		
	Single FG Heater ^[4]	Single Small Heater ^[4]	Total for All Heaters ^[5]
	MMscf/hr	MMscf/hr	MMscf/yr
Fuel Usage	1.96E-02	2.94E-03	541.06

C. EMISSION CALCULATIONS						
Criteria Pollutants						
Pollutant ^[3]	Emission Factor (lb/MMscf) ^[6]	Potential Emissions				
		Single FG Heater	Single Small Heater	Three FG Heaters	Single	Total for All Heaters
		lbs/hr ^[7]	lbs/hr ^[7]	tons/yr	tons/yr	tons/yr ^[8]
NO _x	100	1.9608E+00	2.94E-01	2.58E+01	1.29E+00	2.71E+01
CO	84	1.6471E+00	2.47E-01	2.16E+01	1.08E+00	2.27E+01
VOC	5.50	1.0784E-01	1.62E-02	1.42E+00	7.09E-02	1.49E+00
SO ₂	0.60	1.1765E-02	1.76E-03	1.55E-01	7.73E-03	1.62E-01
PM	7.60	1.4902E-01	2.24E-02	1.96E+00	9.79E-02	2.06E+00
PM ₁₀	7.60	1.4902E-01	2.24E-02	1.96E+00	9.79E-02	2.06E+00
PM _{2.5}	7.60	1.4902E-01	2.24E-02	1.96E+00	9.79E-02	2.06E+00
Greenhouse Gases ^[9]						
CO ₂	120,000	2.35E+03	3.53E+02	3.09E+04	1.55E+03	3.25E+04
CH ₄	2.30	4.51E-02	6.76E-03	5.93E-01	2.96E-02	6.22E-01
N ₂ O	2.20	4.31E-02	6.47E-03	5.67E-01	2.83E-02	5.95E-01
CO _{2e}	--	2.37E+03	3.55E+02	3.11E+04	1.55E+03	3.26E+04

Continued on Next Page

Hazardous Air Pollutants						
Pollutant	Emission Factor (lb/MMscf) ^[10]	Potential Emissions				
		Single FG Heater lbs/hr ^[7]	Single Small Heater lbs/hr ^[7]	Three FG Heaters tons/yr	Single tons/yr	Total for All Heaters tons/yr ^[8]
2-Methylnaphthalene	2.40E-05	4.71E-07	7.06E-08	6.18E-06	6.18E-04	6.49E-06
3-Methylchloranthrene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
7,12-Dimethylbenz(a)anthracene	1.60E-05	3.14E-07	4.71E-08	4.12E-06	4.12E-04	4.33E-06
Acenaphthene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Acenaphthylene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Anthracene	2.40E-06	4.71E-08	7.06E-09	6.18E-07	6.18E-05	6.49E-07
Arsenic	2.00E-04	3.92E-06	5.88E-07	5.15E-05	5.15E-03	5.41E-05
Benz(a)anthracene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Benzene	2.10E-03	4.12E-05	6.18E-06	5.41E-04	5.41E-02	5.68E-04
Benzo(a)pyrene	1.20E-06	2.35E-08	3.53E-09	3.09E-07	3.09E-05	3.25E-07
Benzo(b)fluoranthene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Benzo(g,h,i)perylene	1.20E-06	2.35E-08	3.53E-09	3.09E-07	3.09E-05	3.25E-07
Benzo(k)fluoranthene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Beryllium	1.20E-05	2.35E-07	3.53E-08	3.09E-06	3.09E-04	3.25E-06
Cadmium	1.10E-03	2.16E-05	3.24E-06	2.83E-04	2.83E-02	2.98E-04
Chromium	1.40E-03	2.75E-05	4.12E-06	3.61E-04	3.61E-02	3.79E-04
Chrysene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Cobalt	8.40E-05	1.65E-06	2.47E-07	2.16E-05	2.16E-03	2.27E-05
Dibenzo(a,h)anthracene	1.20E-06	2.35E-08	3.53E-09	3.09E-07	3.09E-05	3.25E-07
Dichlorobenzene	1.20E-03	2.35E-05	3.53E-06	3.09E-04	3.09E-02	3.25E-04
Fluoranthene	3.00E-06	5.88E-08	8.82E-09	7.73E-07	7.73E-05	8.12E-07
Fluorene	2.80E-06	5.49E-08	8.24E-09	7.21E-07	7.21E-05	7.57E-07
Formaldehyde	7.50E-02	1.47E-03	2.21E-04	1.93E-02	1.93E+00	2.03E-02
Hexane	1.80E+00	3.53E-02	5.29E-03	4.64E-01	4.64E+01	4.87E-01
Indeno(1,2,3-c,d)pyrene	1.80E-06	3.53E-08	5.29E-09	4.64E-07	4.64E-05	4.87E-07
Lead	5.00E-04	9.80E-06	1.47E-06	1.29E-04	1.29E-02	1.35E-04
Manganese	3.80E-04	7.45E-06	1.12E-06	9.79E-05	9.79E-03	1.03E-04
Mercury	2.60E-04	5.10E-06	7.65E-07	6.70E-05	6.70E-03	7.03E-05
Naphthalene	6.10E-04	1.20E-05	1.79E-06	1.57E-04	1.57E-02	1.65E-04
Nickel	2.10E-03	4.12E-05	6.18E-06	5.41E-04	5.41E-02	5.68E-04
Phenanthrene	1.70E-05	3.33E-07	5.00E-08	4.38E-06	4.38E-04	4.60E-06
Pyrene	5.00E-06	9.80E-08	1.47E-08	1.29E-06	1.29E-04	1.35E-06
Selenium	2.40E-05	4.71E-07	7.06E-08	6.18E-06	6.18E-04	6.49E-06
Toluene	3.40E-03	6.67E-05	1.00E-05	8.76E-04	8.76E-02	9.20E-04
Polycyclic Organic Matter (POM)	8.82E-05	1.73E-06	2.59E-07	2.27E-05	2.27E-03	2.39E-05
Maximum HAP	--	3.53E-02	5.29E-03	4.64E-01	4.64E+01	4.87E-01
Total HAPs		3.70E-02	5.55E-03	4.87E-01	4.87E+01	5.11E-01

D. NOTES
[1] Heat input provided by DESC.
[2] Higher heating value assumption per AP-42, Chapter 1, Section 1.4, Table 1.4-1, Footnote a.
[3] Total PM emission factor is sum of filterable and condensable. Conservatively set PM ₁₀ , PM _{2.5} equal to total PM.
[4] Fuel Usage (MMscf/hr) = Fuel Usage (MMBtu/hr) / Higher Heating Value (MMBtu/MMscf).
[5] Fuel Usage (MMscf/yr) = Fuel Usage (MMscf/hr) × Hours of Operation (hrs/yr)
[6] Emission factors from AP-42, Chapter 1, Section 1.4, Tables 1.4-1 and 1.4-2, for Small Boilers less than 100 MMBTU/hr, uncontrolled.
[7] Potential Emissions (lbs/hr) = Emission Factor (lb/MMscf) × Potential Facility-Wide Natural Gas Usage (MMscf/hr).
[8] Potential Emissions (tons/yr) = Emission Factor (lb/MMscf) × Limited Facility-Wide Natural Gas Usage (MMscf/yr) × 1 ton/2,000 lbs.
[9] CO ₂ e = CO ₂ × GWP _{CO2} + CH ₄ × GWP _{CH4} + N ₂ O × GWP _{N2O} . GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO ₂ = 1, GWP CH ₄ = 28, N ₂ O = 265
[10] Emission factors from AP-42, Chapter 1, Section 1.4, Tables 1.4-3 and 1.4-4. Constituents of POM (and PAH) are listed individually as well as summed for total POM.

End of Calculation

Appendix A-12
Emission Calculations
Canadys Station | Walterboro, South Carolina
Revised July 2026

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Appendix A-13
Emission Calculations: Small Diesel Generators (Existing, Minor Support Equipment)
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION AND GENERAL CALCULATION PARAMETERS		
Emission Unit ID	EU22	Notes
Emission Unit Description	Emergency Generator Assoc. with	
Emission Unit Make/Model	Cummins Model C60 D6C	
Engine Rated Capacity	100 kW	[1]
	134.1 hp	kW to hp conversion
Diesel Heat Content	19,300 Btu/lb	[2]
	0.0193 MMBtu/lb	(19,300 Btu/lb / 1,000,000 Btu/MMBtu)
Average Fuel Density	7.1 lb/gal	[2]
Fuel Consumption Rate	8.9 gal/hr	[1]
	1.22 MMBtu/hr	(9 gal/hr * 7.1 lb/gal * 0.0193 MMBtu/lb)
Max Actual Annual Run Time	500 hrs/engine	[3]
Number of Emergency Engines	1 engines	
Diesel Sulfur Content	0.0015 weight %	
Fuel consumed per year	4,450 gal/year	(used for Fuel Tank throughputs)

B. EMISSION CALCULATIONS			
Criteria Pollutants			
Pollutant ^[4]	Emission Factor	Potential Emissions	
	lb/hp-hr	lb/hr	tons/year
NO _x	3.10E-02	4.16	1.04
CO	6.68E-03	0.90	0.22
VOC	2.51E-03	0.34	0.08
SO ₂	2.05E-03	0.27	0.07
PM	2.20E-03	0.30	0.07
PM ₁₀	2.20E-03	0.30	0.07
PM _{2.5}	2.20E-03	0.30	0.07

Greenhouse Gases			
Pollutant	Emission Factor	Potential Emissions	
	lb/MMBtu	lb/hr	tons/year
CO ₂ ^[5]	163.05	199	50
CH ₄ ^[6]	6.61E-03	8.07E-03	2.02E-03
N ₂ O ^[6]	1.32E-03	1.61E-03	4.03E-04
CO _{2e} ^[7]	--	200	50
Hazardous Air Pollutants			
Pollutant	Emission Factor^[8]	Potential Emissions	
	lb/MMBtu	lb/hr	tons/year
Benzene	9.33E-04	1.14E-03	2.84E-04
Toluene	4.09E-04	4.99E-04	1.25E-04
Xylenes	2.85E-04	3.48E-04	8.69E-05
1,3-Butadiene	3.91E-05	4.77E-05	1.19E-05
Formaldehyde	1.18E-03	1.44E-03	3.60E-04
Acetaldehyde	7.67E-04	9.35E-04	2.34E-04
Acrolein	9.25E-05	1.13E-04	2.82E-05
Naphthalene	8.48E-05	1.03E-04	2.59E-05
PAH	1.68E-04	2.05E-04	5.12E-05
Total HAPs	--	4.83E-03	1.21E-03

C. NOTES

- [1] Fuel usage obtained from equipment name plate for the Cummins 60 kW generator. Engine size was estimated based on 60% efficiency. Note, SCDES Bureau of Air Quality Permitting Exemption List (Updated December 29, 2022), Section B, 6(i): "Sources with a total uncontrolled PTE of less than five (5) tons per year each of particulates, sulfur dioxide, nitrogen oxides, and carbon monoxide; and a total uncontrolled emission rate of less than 1000 lbs/month of volatile organic compounds (VOCs) will not require construction permits". Additionally, emergency or portable engines which are less than 150 kW rated capacity are exempt under Section B 2(i).
- [2] Value taken from AP-42, Chapter 3.4.
- [3] 500 hours/year of operation are used for potential emission calculations, although operation during an emergency is unlimited. 500 hours/year is based on EPA Guidance "Calculating Potential to Emit (PTE) for Emergency Generators," September 6, 1995.
- [4] Emission factors from AP-42, Chapter 3.4, Table 3.3-1.
- [5] Emission factor taken from 40 CFR Part 98 Subpart C, Table C-1 (07/2025) for distillate fuel oil No. 2. Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg.
- [6] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, Petroleum Products (07/2025). Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg.
- [7] $CO_{2e} = CO_2 \times GWP_{CO_2} + CH_4 \times GWP_{CH_4} + N_2O \times GWP_{N_2O}$. GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO₂ = 1, GWP CH₄ = 28, N₂O = 265
- [8] Emission factors taken from Table 3.3-2 of AP-42, Chapter 3.3.

End of Calculation

Appendix A-14
Emission Calculations: Small Gas Generator (Existing, Minor Support Equipment)
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS UNIT INFORMATION AND GENERAL CALCULATION PARAMETERS		
Emission Unit ID	EU23	
Emission Unit Description	Emergency Generator	[1]
Emission Unit Make/Model	Cummins Model 20GSBB-6714C	[1]
Fuel	Natural Gas (NG)/Propane	[1]
Max Hours of Operation	500 hr/yr	[1]
Engine Rated Capacity	33.33 kW	[2]
	45 bhp	[2]
Engine Heat Input	280 kBTU/hr	[3]
	0.28 MMBtu/hr	[3]
NG Heating Value	1,020 Btu/scf	[4]
Propane Heating Value	90,500 Btu/gal	[5]
Propane Usage Rate	3.09 gal/hr	[6]
	0.003 1000 gal/hr	[7]

B. EMISSION CALCULATIONS								
Criteria Pollutants								
Pollutant	Emission Factor		SIP Generator					
	Natural Gas [8]	Propane [9]	Natural Gas [10], [11]		Propane [10], [11]		Worst-Case [12]	
	lb/MMBtu	lb/1,000 gal	lb/hr	ton/year	lb/hr	ton/year	lb/hr	ton/year
NO _x	2.21	139	0.62	0.15	0.43	0.11	0.62	0.15
CO	3.72	129	1.04	0.26	0.40	0.10	1.04	0.26
VOC	2.96E-02	83	0.01	0.00	0.26	0.06	0.26	0.06
SO ₂	5.88E-04	0.35	1.65E-04	4.12E-05	1.08E-03	2.71E-04	1.08E-03	2.71E-04
PM	1.94E-02	5.0	5.43E-03	1.36E-03	1.55E-02	3.87E-03	1.55E-02	3.87E-03
PM ₁₀	1.94E-02	5.0	5.43E-03	1.36E-03	1.55E-02	3.87E-03	1.55E-02	3.87E-03
PM _{2.5}	1.94E-02	5.0	5.43E-03	1.36E-03	1.55E-02	3.87E-03	1.55E-02	3.87E-03
Greenhouse Gases								
Pollutant	Emission Factor		SIP Generator					
	Natural Gas	Propane	Natural Gas [10], [11]		Propane [10], [11]		Worst-Case [12]	
	lb/MMBtu	lb/MMBtu	lb/hr	ton/year	lb/hr	ton/year	lb/hr	ton/year
CO ₂ [13]	116.98	138.60	32.75	8.19	38.81	9.70	38.81	9.70
CH ₄ [14]	2.20E-03	6.61E-03	6.17E-04	1.54E-04	1.85E-03	4.63E-04	1.85E-03	4.63E-04
N ₂ O [14]	2.20E-04	1.32E-03	6.17E-05	1.54E-05	3.70E-04	9.26E-05	3.70E-04	9.26E-05
CO _{2e} [15]	--	--	33	8	39	10	38.96	9.74

Continued on next page

Hazardous Air Pollutants									
Pollutant ^[16]	HAP (Y/N)	Emission Factor		Natural Gas ^{[10],[11]}		SIP Generator		Worst-Case ^[12]	
		Natural Gas ^[8]	Propane ^[9]			Propane ^{[10],[11]}			
		lb/MMBtu	lb/1,000 gal	lb/hr	ton/year	lb/hr	ton/year	lb/hr	ton/year
1,1,2,2-Tetrachloroethane	Y	2.53E-05	3.62E-03	7.08E-06	1.77E-06	1.12E-05	2.80E-06	1.12E-05	2.80E-06
1,1,2-Trichloroethane	Y	1.53E-05	2.88E-03	4.28E-06	1.07E-06	8.91E-06	2.23E-06	8.91E-06	2.23E-06
1,2,4-Trimethylbenzene	N	-	1.29E-03	--	--	3.99E-06	9.98E-07	3.99E-06	9.98E-07
1,2,3-Trimethylbenzene	N	-	1.99E-03	--	--	6.16E-06	1.54E-06	6.16E-06	1.54E-06
1,3,5-Trimethylbenzene	N	-	2.93E-03	--	--	9.07E-06	2.27E-06	9.07E-06	2.27E-06
1,1-Dichloroethane	N	1.13E-05	2.05E-03	3.16E-06	7.91E-07	6.34E-06	1.59E-06	6.34E-06	1.59E-06
1,2-Dichloroethane	N	1.13E-05	2.14E-03	3.16E-06	7.91E-07	6.62E-06	1.66E-06	6.62E-06	1.66E-06
1,2-Dichloropropane	N	1.30E-05	2.43E-03	3.64E-06	9.10E-07	7.52E-06	1.88E-06	7.52E-06	1.88E-06
1,3-Butadiene	Y	6.63E-04	2.42E-02	1.86E-04	4.64E-05	7.49E-05	1.87E-05	1.86E-04	4.64E-05
1,3-Dichloropropene	Y	1.27E-05	2.39E-03	3.56E-06	8.89E-07	7.39E-06	1.85E-06	7.39E-06	1.85E-06
2-Methylnaphthalene	PAH	-	3.00E-03	--	--	9.28E-06	2.32E-06	9.28E-06	2.32E-06
2,2,4-Trimethylpentane	Y	-	2.17E-02	--	--	6.71E-05	1.68E-05	6.71E-05	1.68E-05
Acenaphthene	PAH	-	1.13E-04	--	--	3.50E-07	8.74E-08	3.50E-07	8.74E-08
Acenaphthylene	PAH	-	5.00E-04	--	--	1.55E-06	3.87E-07	1.55E-06	3.87E-07
Acetaldehyde	Y	2.79E-03	7.57E-01	7.81E-04	1.95E-04	2.34E-03	5.86E-04	2.34E-03	5.86E-04
Acrolein	Y	2.63E-03	4.65E-01	7.36E-04	1.84E-04	1.44E-03	3.60E-04	1.44E-03	3.60E-04
Benzo(b)fluoranthene	PAH	-	1.50E-05	--	--	4.64E-08	1.16E-08	4.64E-08	1.16E-08
Benzo(e)pyrene	PAH	-	3.76E-05	--	--	1.16E-07	2.91E-08	1.16E-07	2.91E-08
Benzo(k)fluoranthene	PAH	-	3.75E-05	--	--	1.16E-07	2.90E-08	1.16E-07	2.90E-08
Benzene	Y	1.58E-03	3.98E-02	4.42E-04	1.11E-04	1.23E-04	3.08E-05	4.42E-04	1.11E-04
Biphenyl	Y	-	1.84E-02	--	--	5.69E-05	1.42E-05	5.69E-05	1.42E-05
Carbon Tetrachloride	Y	1.77E-05	3.32E-03	4.96E-06	1.24E-06	1.03E-05	2.57E-06	1.03E-05	2.57E-06
Chlorobenzene	Y	1.29E-05	2.64E-03	3.61E-06	9.03E-07	8.16E-06	2.04E-06	8.16E-06	2.04E-06
Chloroform	Y	1.37E-05	2.58E-03	3.84E-06	9.59E-07	7.98E-06	2.00E-06	7.98E-06	2.00E-06
Chrysene	PAH	-	6.27E-05	--	--	1.94E-07	4.85E-08	1.94E-07	4.85E-08
Ethylbenzene	Y	2.48E-05	3.59E-03	6.94E-06	1.74E-06	1.11E-05	2.78E-06	1.11E-05	2.78E-06
Ethylene Dibromide	Y	2.13E-05	4.01E-03	5.96E-06	1.49E-06	1.24E-05	3.10E-06	1.24E-05	3.10E-06
Fluoranthene	PAH	-	1.00E-04	--	--	3.09E-07	7.73E-08	3.09E-07	7.73E-08
Fluorene	PAH	-	5.13E-04	--	--	1.59E-06	3.97E-07	1.59E-06	3.97E-07
Formaldehyde	Y	2.05E-02	4.78E+00	5.74E-03	1.44E-03	1.48E-02	3.70E-03	1.48E-02	3.70E-03
n-Hexane	Y	-	1.00E-01	--	--	3.09E-04	7.73E-05	3.09E-04	7.73E-05
Methanol	Y	3.06E-03	2.26E-01	8.57E-04	2.14E-04	6.99E-04	1.75E-04	8.57E-04	2.14E-04
Methylene Chloride	Y	4.12E-05	1.81E-03	1.15E-05	2.88E-06	5.60E-06	1.40E-06	1.15E-05	2.88E-06
Naphthalene	PAH	9.71E-05	6.73E-03	2.72E-05	6.80E-06	2.08E-05	5.21E-06	2.72E-05	6.80E-06
Phenanthrene	PAH	-	9.41E-04	--	--	2.91E-06	7.28E-07	2.91E-06	7.28E-07
Phenol	Y	-	2.08E-03	--	--	6.44E-06	1.61E-06	6.44E-06	1.61E-06
Pyrene	PAH	-	1.23E-04	--	--	3.81E-07	9.51E-08	3.81E-07	9.51E-08
PAH	Y	1.41E-04	1.22E-02	3.95E-05	9.87E-06	3.77E-05	9.42E-06	3.95E-05	9.87E-06
Styrene	Y	1.19E-05	2.14E-03	3.33E-06	8.33E-07	6.62E-06	1.66E-06	6.62E-06	1.66E-06
Toluene	Y	5.58E-04	3.69E-02	1.56E-04	3.91E-05	1.14E-04	2.85E-05	1.56E-04	3.91E-05
Vinyl Chloride	Y	7.18E-06	1.35E-03	2.01E-06	5.03E-07	4.18E-06	1.04E-06	4.18E-06	1.04E-06
Xylenes	Y	1.95E-04	1.67E-02	5.46E-05	1.37E-05	5.17E-05	1.29E-05	5.46E-05	1.37E-05
Polycyclic Organic Matter (POM)	Y	1.41E-04	1.22E-02	3.95E-05	9.87E-06	3.77E-05	9.42E-06	3.95E-05	9.87E-06
Total HAPs				9.05E-03	2.26E-03	2.02E-02	5.05E-03	2.08E-02	5.21E-03
Other Pollutants ^[9]									
Ammonia	N	-	0.3	--	--	9.28E-04	2.32E-04	9.28E-04	2.32E-04

C. NOTES

[1] This generator engine is existing minor support equipment, and is exempt from permitting. SCDES Bureau of Air Quality Permitting Exemption List (Updated December 29, 2022), Section B, 6(i): "Sources with a total uncontrolled PTE of less than five (5) tons per year each of particulates, sulfur dioxide, nitrogen oxides, and carbon monoxide; and a total uncontrolled emission rate of less than 1000 lbs/month of volatile organic compounds (VOCs) will not require construction permits." Additionally, emergency or portable engines which are less than 150 kW rated capacity are exempt under Section B 2(i). 500 hours/year of operation are used for potential emission calculations, although operation during an emergency is unlimited. 500 hours/year is based on EPA Guidance "Calculating Potential to Emit (PTE) for Emergency Generators," September 6, 1995.

[2] Generator size (kW) provided by the Facility. The engine size (kW) was estimated by assuming 60% efficiency. Units were converted using 1.34 bhp per kW.

[3] Engine heat input (kBtu/hr) obtained from name plate; units converted using 1,000 kBtu/MMBtu.

[4] Fuel Heating Value for natural gas from AP-42 Chapter 3.2.

[5] Fuel Heating Value for typical commercial grade propane from AP-42 Chapter 1.5.

[6] Propane Fuel Usage Rate (gal/hr) = Heat input (kBtu/hr) × Unit Conversion (1000 Btu/kBtu) ÷ Propane Heating Value (Btu/gal)

[7] Applied unit conversion of 1,000 gallons per 1000-gal.

[8] Emissions factors for natural gas combustion are from Table 3.2-3 of AP-42, Chapter 3.2 for a 4-stroke, rich burn natural gas engine.

[9] As there are no criteria pollutant or HAP emission factors for internal combustion of propane in AP-42, emission factors for propane fired internal combustion engines were obtained from "Combustion Default Emission Factors (Revised December 2024)", the South Coast Air Quality Management District were used. Given emission factors included ammonia. Accessed: https://www.aqmd.gov/docs/default-source/planning/annual-emission-reporting/combustion-default-emission-factors-2024.pdf?sfvrsn=9c358361_9. HAP emission factors were obtained for 4 Stroke (Lean-Burn) ICE.

[10] Hourly Emissions (lbs/hr) = Heat Input Rating (MMBtu/hr) × Emission Factor (lb/MMBtu); or Hourly Emissions (lbs/hr) = Emission Factor (lb/1000 gal) x Heat Input (1000 gal/hr)

[11] Annual Emissions (tons/yr) = Hourly Emissions (lbs/hr) × Max Hours of Operation (hrs/yr) ÷ 2,000 lbs/ton

[12] Worst case emission rate between the two possible fuel types was selected for the potential emission rate for the generator.

[13] Emission factor taken from 40 CFR Part 98 Subpart C, Table C-1 (02/2026) for propane and natural gas. Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg.

[14] Emission factor from 40 CFR Part 98, Subpart C, Table C-2, for natural gas and Petroleum Products for propane (02/2026). Converted to lbs/MMBtu from kg/MMBtu by multiplying by 2.20462 lbs/kg.

[15] CO_{2e} = CO₂ * GWP_{CO2} + CH₄ * GWP_{CH4} + N₂O * GWP_{N2O}. GWP values are from 40 CFR Part 98, Subpart A, Table A-1 (07/25). GWP CO₂ = 1, GWP CH₄ = 28, N₂O = 265

[16] For natural gas fired, a single emission factor was available for total PAH. For propane fired, emission factors were available for constituents of POM (and PAH), so emissions were calculated individually as well as summed for total PAH. PAH is a subcategory of POM, and POM is a HAP. Compounds were identified as POM consistent with AP-42 Table 1.4-3.

End of calculation

Appendix A-15
Emission Calculations: Q Over D Analysis
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. CALCULATION OF Q ^[1]																	
Pollutant	Gas Turbines and Duct Burners		Auxiliary Boiler		Diesel-Fired Emergency Generators		Diesel-Fired Fire Water Pumps		Small Diesel-Fired Emergency Generator		Small Gas-Fired Emergency Generator		Fuel Gas Heaters		Cooling Equipment ^[2]		Total
	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	lb/day	tons/year	tons/year
Natural Gas Operation																	
NO _x	3416.50	623.51	88.53	16.16	156.18	28.50	3.74	0.68	4.16	0.76	0.62	0.11	148.24	27.05	--	--	696.78
SO ₂	625.50	114.15	1.41	0.26	0.107	0.02	0.01	0.001	0.27	0.05	0.001	0.0002	0.89	0.16	--	--	114.64
PM ₁₀	2878.50	525.33	17.85	3.26	1.41	0.26	0.120	0.022	0.30	0.05	0.02	0.003	11.27	2.06	28.01	5.11	536.09
Sulfuric Acid Mist	965.00	176.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	176.11
Q (tons/year):																	1523.62
Fuel Oil Operation																	
NO _x	6529.53	1191.64	88.53	16.16	156.18	28.50	3.74	0.68	4.16	0.76	0.62	0.11	148.24	27.05	--	--	1264.90
SO ₂	494.25	90.20	1.41	0.26	0.11	0.02	0.01	0.001	0.27	0.05	0.001	0.0002	0.89	0.16	--	--	90.69
PM ₁₀	7293.95	1331.15	17.85	3.26	1.41	0.26	0.12	0.02	0.30	0.05	0.02	0.003	11.27	2.06	28.01	5.11	1341.91
Sulfuric Acid Mist	930.38	169.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	169.79
Q (tons/year):																	2867.30

B. CALCULATION OF Q/D ^[2]			
Class I Area	Distance (D in km)	Q/D Analysis ^[2]	
		Q/D	Exceeds Threshold?
Natural Gas Operation			
Cape Romain National Wildlife Refuge	93	16.4	Yes
Wolf Island	202	7.5	No
Okefenokee Swamp	286	5.3	No
Fuel Oil Operation			
Cape Romain National Wildlife Refuge	93	30.8	Yes
Wolf Island	202	14.2	Yes
Okefenokee Swamp	286	10.0	Yes

C. NOTES
[1] Based Worst Case Daily Emission Rate, calculated for 365 days per year of operation.
[2] Q/D Analysis performed according to the <i>Federal Land Manager's (FLM) Air Quality Related Values (AQRV) Work Group (FLAG) Phase I Report - Revised (2010)</i> , which establishes the Q/D screening for sources greater than 50 km from a Class I Area. Specifically, annual emissions from the source (tons per year) are divided by the distance to the Class I Area (km), and compared to a screening threshold of 10.
[3] The reported values for the cooling equipment includes the total emissions from the six (6) inlet chiller cooling towers and the three (3) delugeable cooling systems.

End of Calculation

Appendix A-16
De Minimis Evaluation for Toxic Air Pollutants
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. TAP GENERATING EMISSION SOURCES		
Pollutant	Piping Component Fugitives	Large Fuel Oil Tank#1 and #2
	lb/day	lb/day
Hexane	1.39E-01	1.26E-02
Methyl Mercaptan	2.58E-03	-
Ethylbenzene	-	8.42E-01
Toluene	-	2.92E+00
Benzene	-	9.05E-02
Xylenes	-	1.92E+01

B. TAP DE-MINIMIS ANALYSIS ^[1]			
Pollutant	Plant Wide Emission Rate	De-Minimis Rate	Modeling Required?
	lb/day	lb/day	
Hexane	0.152	10.8	No
Methyl Mercaptan	0.003	0.12	No
Ethylbenzene	8.42E-01	52.2	No
Toluene	2.92E+00	24	No
Benzene	9.05E-02	1.8	No
Xylenes	1.92E+01	52.2	No

C. NOTES
[1] De-minimis rates obtained from Table B.1 of SCDES Modeling Guidelines for Air Quality Permits, Oct 2018 (Revised 1/9/2025).

End of Table

Appendix A-17
Emissions Calculations: Inlet Chillers
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION			
Emission Unit ID	EU24		
Emission Unit Description	Inlet Chiller Cooling Towers		
Hours of Operation	8,760	hrs/yr	
Number of Inlet Chillers	6	Units	
Number of Cells per Inlet Chiller	4	cells	
Water Circulation Rate	24,000	gpm	[1]
Total Liquid Drift	0.0005	%	[2]
Expected TDS/TSS of Circulated Water	1,500	ppmw	[3]
Weight Percent PM10 in Particulate Emissions	70.00	%	[4]
Weight Percent PM2.5 in Particulate Emissions	42.00	%	[4]

B. EMISSION CALCULATIONS			
Pollutant	Emission Rate - Per Inlet Chiller Cooling Tower		
	lb/hr	ton/yr	
PM	9.01E-02	3.95E-01	[5]
PM10	6.31E-02	2.76E-01	[5]
PM2.5	3.79E-02	1.66E-01	[5]
Pollutant	Emission Rate - Per Cell		
PM	2.25E-02	9.87E-02	[6]
PM10	1.58E-02	6.91E-02	[6]
PM2.5	9.46E-03	4.15E-02	[6]

C. NOTES
[1] Design Water Circulation Rate, Gallons/Minute (gpm).
[2] Design Total Liquid Drift, Percent (%): Drift rate typical of cross flow packaged cooling tower.
[3] Process Design Data of 1,500 ppmw in circulating water.
[4] PM10 and PM2.5 fractions are from the paper titled "Methodology to Calculate Particulate Matter (PM) 2.5 and PM2.5 Significance Thresholds", Krause and Smith, South Coast Air Quality Management District, 2006, Appendix A.
[5] Based on USEPA AP-42 Section 13.4 Wet Cooling Towers, Table 13.4-1 dated 1/95. Modified to Cooling Tower Design Emission Rate (lb/hr) = Water Circulation Rate (gpm) x 60 x Drift (%) / 100 x 8.3453 (lb/gal) x TDS (lb PM/1,000,000 lb water) x Weight Percent of Particle Size (%) / 100.
[6] Emission rate per cell = Emission rate total / Number of Cells.

End of Calculation

Appendix A-18
Emissions Calculations: Delugable Auxiliary Equipment Cooling Systems
Canadys Station | Walterboro, South Carolina
Revised July 2026

A. PROCESS INFORMATION			
Emission Unit ID	EU25		
Emission Unit Description	Delugable Cooling Systems		
Total Number of Deluged Cooling Systems	3		
Number of Cells per Cooling System	8		
Number of Dry Cells Per System	4		
Number of Wet Cells Per System	4		
Total Deluge Water Rate	25,000	gpm	
Total Liquid Drift	0.01	%	
Expected TDS/TSS of Circulated Water	300	ppmw	
Weight Percent PM10 in Particulate Emissions	70	%	[1]
Weight Percent PM2.5 in Particulate Emissions	42	%	[1]
Annual Hours of Operation	8760		

B. EMISSION CALCULATIONS			
Pollutant	Emission Rate - Per Deluged Cooling Systems		
	lb/hr	ton/yr	
PM	3.76E-01	1.64E+00	[2,3]
PM10	2.63E-01	1.15E+00	[2,3]
PM2.5	1.58E-01	6.91E-01	[2,3]
Pollutant	Emission Rate - Per Deluged Cell		
PM	9.39E-02	4.11E-01	[4]
PM10	6.57E-02	2.88E-01	[4]
PM2.5	3.94E-02	1.73E-01	[4]

C. NOTES
[1] PM10 and PM2.5 fractions are from the paper titled "Methodology to Calculate Particulate Matter (PM) 2.5 and PM2.5 Significance Thresholds", Krause and Smith, South Coast Air Quality Management District, 2006, Appendix A.
[2] Based on USEPA AP-42 Section 13.4 Wet Cooling Towers, Table 13.4-1 dated 1/95. Modified to Cooling Tower Design Emission Rate (lb/hr) = Water Circulation Rate (gpm) x 60 x Drift (%) / 100 x 8.3453 (lb/gal) x TDS (lb PM/1,000,000 lb water) x Weight Percent of Particle Size (%) / 100.
[3] Emission Rate (ton/yr) = Emission Rate (lb/hr) x 8,760 hr/yr x % Yearly Hours Operated / 2,000 lb/ton.
[4] Emission rate per cell = Emission rate total / (Number of Deluged Bays).

End of Calculation

Modeling Input Parameters
Dominion Engery Canadys Station | Canadys, SC
July 2026

A. Modeled Parameters for Point Sources

Modeled Source ID	Description	Easting (X)	Northing (Y)	Base Elevation	Stack Height (Release Height AGL)	Exhaust Temperature	Exhaust Flowrate	Exhaust Velocity	Stack Diameter	Discharge Orientation	Rain Cap?
		m	m	m	ft	°F	acfm	ft/s	ft		
CT01	Combustion Turbine 1	534690.00	3658587.00	23.76	199.00	Varies with Load. See Table B below.			23.00	V	No
CT02	Combustion Turbine 2	534855.00	3658618.00	22.33	199.00				23.00	V	No
CT03	Combustion Turbine 3	535021.00	3658647.00	20.89	199.00				23.00	V	No
BOILER01	Auxiliary Boiler	534864.46	3658626.83	23.25	169.00	505.00	29094.20	24.70	5.00	V	No
EMGEN01	Emergency Generator 1	534670.89	3658414.24	25.27	25.00	853.10	18497.40	135.82	1.70	V	No
EMGEN02	Emergency Generator 2	534835.94	3658443.72	20.88	25.00	853.10	18497.40	135.82	1.70	V	No
EMGEN03	Emergency Generator 3	535001.95	3658473.47	24.43	25.00	853.10	18497.40	135.82	1.70	V	No
FP01	Fire Water Pump 1	534729.52	3658678.81	23.83	15.00	961.00	1400.00	118.84	0.5	V	No
FP02	Fire Water Pump 2	535212.92	3658672.48	20.33	15.00	961.00	1400.00	118.84	0.5	V	No
HEAT01	Fuel Gas Heater 1	534828.00	3658741.00	22.82	22.80	897.00	2784.48	15.70	1.94	V	No
HEAT02	Fuel Gas Heater 2	534836.00	3658742.00	22.35	22.80	897.00	2784.48	15.70	1.94	V	No
HEAT03	Fuel Gas Heater 3	534837.00	3658736.00	22.49	22.80	897.00	2784.48	15.70	1.94	V	No
HEAT04	Fuel Gas Heater 4	534829.00	3658735.00	22.85	14.25	700.00	1399.58	29.70	1.00	V	No
EMGEN04	SIP Hut Gas-Fired Emergency Generator	535397.00	3658533.00	23.42	10.00	450.00	180.00	44.90	0.29	V	No
EMGEN05	Cell Tower Diesel-Fired Emergency Generator	535561.00	3658473.00	20.64	10.00	900.00	500.00	61.12	0.42	V	No
COOL1_1	Inlet Chiller No. 1 (Cell 1)	534674.11	3658679.31	24.11	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL1_2	Inlet Chiller No. 1 (Cell 2)	534676.68	3658679.73	24.11	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL1_3	Inlet Chiller No. 1 (Cell 3)	534679.4	3658680.22	24.11	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL1_4	Inlet Chiller No. 1 (Cell 4)	534682.12	3658680.63	24.1	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL2_1	Inlet Chiller No. 2 (Cell 1)	534673.48	3658686.43	24.16	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL2_2	Inlet Chiller No. 2 (Cell 2)	534675.65	3658686.86	24.15	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL2_3	Inlet Chiller No. 2 (Cell 3)	534678.37	3658687.23	24.14	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL2_4	Inlet Chiller No. 2 (Cell 4)	534680.43	3658687.73	24.14	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL3_1	Inlet Chiller No. 3 (Cell 1)	534671.98	3658692.88	24.2	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL3_2	Inlet Chiller No. 3 (Cell 2)	534674.4	3658693.38	24.19	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL3_3	Inlet Chiller No. 3 (Cell 3)	534677.08	3658693.88	24.17	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL3_4	Inlet Chiller No. 3 (Cell 4)	534679.18	3658694.31	24.16	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL4_1	Inlet Chiller No. 4 (Cell 1)	534686.67	3658695.29	24.11	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL4_2	Inlet Chiller No. 4 (Cell 2)	534688.75	3658695.65	24.09	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL4_3	Inlet Chiller No. 4 (Cell 3)	534691.59	3658696.18	24.07	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL4_4	Inlet Chiller No. 4 (Cell 4)	534693.78	3658696.43	24.06	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL5_1	Inlet Chiller No. 5 (Cell 1)	534687.98	3658688.72	24.09	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL5_2	Inlet Chiller No. 5 (Cell 2)	534690.17	3658689.16	24.08	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL5_3	Inlet Chiller No. 5 (Cell 3)	534693	3658689.45	24.06	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL5_4	Inlet Chiller No. 5 (Cell 4)	534694.95	3658689.84	24.05	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL6_1	Inlet Chiller No. 6 (Cell 1)	534688.97	3658682.07	24.07	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL6_2	Inlet Chiller No. 6 (Cell 2)	534691.2	3658682.61	24.06	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL6_3	Inlet Chiller No. 6 (Cell 3)	534693.78	3658682.89	24.04	51.00	70.00	165,999.99	24.46	12.00	V	No
COOL6_4	Inlet Chiller No. 6 (Cell 4)	534695.81	3658683.28	24.03	51.00	70.00	165,999.99	24.46	12.00	V	No
DELUGE1_1	Deluge Cooling System No. 1 (Cell 1)	535020.06	3658683.19	20.88	28.00	105.00	230,907.00	25.00	14.00	V	No
DELUGE1_2	Deluge Cooling System No. 1 (Cell 2)	535024.81	3658684.18	20.9	28.00	105.00	230,907.00	25.00	14.00	V	No
DELUGE1_3	Deluge Cooling System No. 1 (Cell 3)	535029.64	3658685.03	20.91	28.00	105.00	230,907.00	25.00	14.00	V	No
DELUGE1_4	Deluge Cooling System No. 1 (Cell 4)	535034.25	3658685.87	20.93	28.00	105.00	230,907.00	25.00	14.00	V	No
DELUGE2_1	Deluge Cooling System No. 2 (Cell 1)	534853.83	3658654.78	22.85	28.00	105.00	230,907.00	25.00	14.00	V	No
DELUGE2_2	Deluge Cooling System No. 2 (Cell 2)	534858.48	3658655.47	23.06	28.00	105.00	230,907.00	25.00	14.00	V	No
DELUGE2_3	Deluge Cooling System No. 2 (Cell 3)	534863.31	3658655.99	23.18	28.00	105.00	230,907.00	25.00	14.00	V	No
DELUGE2_4	Deluge Cooling System No. 2 (Cell 4)	534868.14	3658656.85	22.89	28.00	105.00	230,907.00	25.00	14.00	V	No
DELUGE3_1	Deluge Cooling System No. 3 (Cell 1)	534687.73	3658625.47	23.88	28.00	105.00	230,907.00	25.00	14.00	V	No
DELUGE3_2	Deluge Cooling System No. 3 (Cell 2)	534692.39	3658626.33	23.91	28.00	105.00	230,907.00	25.00	14.00	V	No
DELUGE3_3	Deluge Cooling System No. 3 (Cell 3)	534697.56	3658627.19	23.95	28.00	105.00	230,907.00	25.00	14.00	V	No
DELUGE3_4	Deluge Cooling System No. 3 (Cell 4)	534701.87	3658628.05	23.97	28.00	105.00	230,907.00	25.00	14.00	V	No

B. Modeled Exhaust Values for Combustion Turbines

Modeled Source Group ID ^[1]	Design/Worst Case	Fuel	Case No.	Discharge Orientation	Rain Cap?	Exhaust Temperature °F	Exhaust Flowrate acfm	Exhaust Velocity ft/s
NG30	Design	Natural Gas	Case 30	V	No	160.0	1,795,408	72.02
NG23	Worst-Case (PM10/PM2.5/SO2)	Natural Gas	Case 23	V	No	160.0	1,762,179	70.69
NG24	Worst-Case (CO)	Natural Gas	Case 24	V	No	160.0	1,764,685	70.79
NG25	Worst-Case (NOx)	Natural Gas	Case 25	V	No	160.0	1,791,050	71.85
FO4	Design	Fuel Oil	Case 4	V	No	309.5	2,220,784	89.09
FO2	Worst-Case (SO2)	Fuel Oil	Case 2			307.0	2,060,875	82.67
FO3	Worst-Case (CO/PM10/PM2.5/NOx)	Fuel Oil	Case 3	V	No	308.2	2,143,517	85.99
ANNUAL	Design	Natural Gas + Fuel Oil (PM10/PM2.5, NOx)	Case 30 (NG) + Case 4 (FO)	V	No	160	1,795,408.00	72.02
		Natural Gas Only (SO2)	Case 30 (NG)					

C. Notes

[1] See modeling files for nearest property boundary.

[2] See modeling files for building dimensions.

Appendix B-1a
Mitsubishi Performance Data for Natural Gas-Firing
Canadys Station | Walterboro, South Carolina
March 2026

A. PROJECT INFORMATION													
Title Purpose Customer Name Project Name Mitsubishi Power Reference Number Revision Number/Letter Revision Date Revision Author				Thermal Performance Estimates FOR INFORMATION ONLY Dominion Energy Canadys 20-0379 2 13-Jan-2026 W. Herrington									
Cycle Arrangement Mitsubishi Power Scope Gas Turbine Model Heat Rejection System Gas Turbine Fuel Analysis GT Fuel GT Fuel Analysis Duct Burner Fuel Analysis DB Fuel DB Fuel Analysis				1x1 (MS) Multi-Shaft Combined-Cycle Power Train M501JAC Air-Cooled Condenser Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₃ H ₁₂ , 0.01% C ₄ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂ Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₃ H ₁₂ , 0.01% C ₄ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂									
				Notes 1. For assumptions and clarifications, please refer to notes provided on separate page.									
CUSTOMER CASE #				NG1	NG2	NG3	NG4	NG5	NG6	NG7	NG8	NG9	NG10
PERFORMANCE CASE DESCRIPTION													
Case Notes				Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Chiller	Chiller	Chiller
Ambient Dry Bulb Temperature	°F			-10.0	0.0	29.0	59.0	80.0	98.0	110.0	59.0	80.0	98.0
Barometric Pressure	psia			14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
Relative Humidity	%			57.0	57.0	57.0	60.0	50.0	43.0	35.0	60.0	50.0	43.0
Type of Operation (Normal/Abnormal)				Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Type of Operation (Steady-State, Transient)				Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State
Type of Operation (Above MECL / Below MECL)				Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL
Number of GT's in Operation				1	1	1	1	1	1	1	1	1	1
GT Load (as % of baseload)	%			100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Inlet Chilling	Included			OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
Expected Chiller Pressure Loss	inH2O			0.88	0.90	0.94	1.00	0.98	0.89	0.82	1.00	1.04	1.08
GAS TURBINE PERFORMANCE SUMMARY (PER GT)													
GT Fuel													
GT Fuel Gas Heating Temperature	°F			410.2	411.3	413.3	414.6	413.8	411.0	408.5	414.4	414.7	415.0
GT Fuel Heating Value, HHV	Btu/lb			23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
GT Fuel Heating Value, LHV	Btu/lb			20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4
GT Fuel Consumption (per GT)	lb/h			175,570	176,563	179,431	175,682	168,895	158,383	150,111	177,310	177,479	177,478
GT Heat Consumption, HHV (per GT)	MMBtu/h			4,076	4,099	4,166	4,079	3,921	3,677	3,485	4,117	4,121	4,121
GT Heat Consumption, LHV (per GT)	MMBtu/h			3,676	3,696	3,756	3,678	3,536	3,316	3,143	3,712	3,716	3,716

PLANT PERFORMANCE SUMMARY												
Duct Burner Status	ON/OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
DB Fuel Heating Value, HHV	Btu/lb	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
Duct Burner Fuel Consumption (per HRSG)	lb/h	0	0	0	0	0	0	0	0	0	0	0
Estimated Duct Burner Heat Consumption, HHV (per HRSG)	MMBtu/h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ST Back Pressure	inHga	1.96	1.96	1.97	1.97	2.49	4.00	5.47	1.97	2.52	4.16	
Estimated Gross Power Train Performance												
Estimated Gross GTG Output (Multi-Shaft) Total	kW	454,100	457,850	473,600	458,270	436,100	404,540	378,860	464,390	464,710	464,710	
Estimated Gross STG Output (Multi-Shaft)	kW	198,230	201,600	206,890	208,800	202,800	182,280	164,940	208,810	206,170	192,910	
Estimated Gross Power Train Output	kW	652,330	659,460	680,500	667,070	638,900	586,830	543,810	673,200	670,890	657,630	
Estimated Power Train Auxiliary Loads												
Estimated Power Train Auxiliary Loads (Mitsubishi Power)	kW	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	
Estimated Net Power Train Performance												
Estimated Net Power Train Output	kW	650,170	657,300	678,340	664,910	636,740	584,670	541,650	671,040	668,730	655,470	
Estimated Net Power Train Heat Rate, HHV	Btu/kWh	6,269	6,236	6,141	6,134	6,158	6,289	6,434	6,134	6,161	6,286	
Estimated Net Power Train Heat Rate, LHV	Btu/kWh	5,652	5,623	5,537	5,531	5,552	5,670	5,801	5,531	5,555	5,668	
STACK EXHAUST CONDITIONS AND EMISSIONS SUMMARY (PER STACK)												
Stack Exhaust												
Stack Exhaust Flow (Mass)	kgph	6,552	6,559	6,653	6,645	6,449	6,045	5,725	6,653	6,649	6,649	
Stack Exhaust Flow (Volume) - Actual	ft3/min	1,793,391	1,794,619	1,822,044	1,826,158	1,783,921	1,689,451	1,610,793	1,828,120	1,838,880	1,862,854	
Stack Exhaust Flow (Volume) - DSCFM	ft3/min	1,323,954	1,324,512	1,341,337	1,335,371	1,290,974	1,202,698	1,135,675	1,336,330	1,333,377	1,333,377	
Stack Exhaust Gas Temperature	°F	177	176.5	176.7	177	180	185	188	177	181	189	
Stack Exhaust Gas Composition												
O2	mol%	10.83	10.78	10.72	10.80	10.77	10.62	10.55	10.72	10.67	10.67	
CO2	mol%	4.68	4.71	4.71	4.61	4.56	4.55	4.54	4.65	4.65	4.65	
H2O	mol%	9.10	9.19	9.40	9.90	10.47	11.29	11.70	9.96	10.17	10.17	
N2	mol%	74.46	74.39	74.24	73.76	73.28	72.63	72.31	73.74	73.58	73.58	
Ar	mol%	0.94	0.93	0.93	0.93	0.92	0.91	0.91	0.93	0.93	0.93	
Stack Exhaust Gas Molecular Weight		28.40	28.39	28.37	28.30	28.23	28.14	28.10	28.30	28.28	28.28	
STACK EXHAUST EMISSIONS (PER STACK)												
NOx	ppmvd@15% O2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
NOx	lb/h	36.0	36.0	36.0	36.0	34.0	32.0	31.0	36.0	36.0	36.0	
NOx	lb/MMBtu - HHV	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	
CO	ppmvd@15% O2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
CO	lb/h	22.0	22.0	22.0	22.0	21.0	20.0	19.0	22.0	22.0	22.0	
CO	lb/MMBtu - HHV	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	
VOC (includes Formaldehyde)	ppmvd@15% O2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
VOC (includes Formaldehyde)	lb/h	7.00	7.00	7.00	7.00	6.00	6.00	6.00	7.00	7.00	7.00	
VOC (includes Formaldehyde)	lb/MMBtu - HHV	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
Formaldehyde (CH2O)	ppbvd@15% O2	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	
Formaldehyde (CH2O)	lb/h	2.0	2.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	
Formaldehyde (CH2O)	lb/MMBtu - HHV	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
H2SO4	lb/h	12.0	12.0	13.0	12.0	12.0	11.0	11.0	12.0	12.0	12.0	
H2SO4	lb/MMBtu - HHV	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
SO2 (before conversion to SO3)	lb/h	7.0	7.0	7.0	7.0	7.0	7.0	6.0	7.0	7.0	7.0	
SO2 (before conversion to SO3)	lb/MMBtu - HHV	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
Particulates (PM10 Filterable)	lb/h	25.00	25.00	25.00	25.00	24.00	22.00	21.00	25.00	25.00	25.00	
Particulates (PM10 Filterable)	lb/MMBtu - HHV	0.006	0.00600	0.00600	0.00600	0.00600	0.00600	0.00600	0.00600	0.00600	0.00600	
Particulates (PM10 Condensable, as (NH4)2SO4)	lb/h	25.00	25.00	25.00	25.00	24.00	22.00	21.00	25.00	25.00	25.00	
Particulates (PM10 Condensable, as (NH4)2SO4)	lb/MMBtu - HHV	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	
Ammonia Slip (NH3)	ppmvd@15% O2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Ammonia Slip (NH3)	lb/h	30.0	30.0	31.0	30.0	29.0	27.0	26.0	31.0	31.0	31.0	
Ammonia Slip (NH3)	lb/MMBtu - HHV	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
COe (i.e. CO2 equivalent) (based on EPA Emission Factor)	lb/h	533,700	536,700	545,400	534,000	513,400	481,400	456,300	538,900	539,500	539,500	
COe (i.e. CO2 equivalent) (based on EPA Emission Factor)	lb/MMBtu - HHV	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	
Estimated CO2 (based on EPA Emission Factor), For Information Only		533,200	536,200	544,900	533,500	512,900	481,000	455,900	538,500	539,000	539,000	

Appendix B-1b
Mitsubishi Performance Data for Natural Gas-Firing
Canadys Station | Walterboro, South Carolina
March 2026

Thermal Performance Estimates FOR INFORMATION ONLY Dominion Energy Canadys 20-0379 2 13-Jan-2026 W. Herrington 1x1 (MS) Multi-Shaft Combined-Cycle Power Train MS01JAC Air-Cooled Condenser Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₅ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂ Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₅ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂														
Notes 1. For assumptions and clarifications, please refer to notes provided on separate page.														
NG11	NG12	NG13	NG14	NG15	NG16	NG17	NG18	NG19	NG20	NG21	NG22	NG23	NG24	NG25
Chiller	Duct Fired	Duct Fired	Duct Fired	Duct Fired	Duct Fired	Duct Fired	Duct Fired	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Duct Fired	Duct Fired	Duct Fired
110.0	-10.0	0.0	29.0	59.0	80.0	98.0	110.0	59.0	80.0	98.0	110.0	-10.0	0.0	29.0
14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
35.0	57.0	57.0	57.0	60.0	50.0	43.0	35.0	60.0	50.0	43.0	35.0	57.0	57.0	57.0
Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State
Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF
1.10	0.88	0.90	0.94	1.00	0.98	0.89	0.82	1.00	1.04	1.08	1.10	0.88	0.90	0.94
415.2	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4
177,477	175,479	176,477	179,354	175,613	168,825	158,304	150,025	177,239	177,410	177,410	177,410	175,479	176,477	179,354
4,121	4,074	4,097	4,164	4,077	3,920	3,675	3,483	4,115	4,119	4,119	4,119	4,074	4,097	4,164
3,716	3,674	3,695	3,755	3,676	3,534	3,314	3,141	3,711	3,714	3,714	3,714	3,674	3,695	3,755

OFF	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
0	21,577	21,577	21,575	21,575	21,578	21,584	21,590	21,575	21,575	21,575	21,575	36,679	36,679	36,676
0.0	500.9	500.9	500.9	500.9	501.0	501.1	501.2	500.9	500.9	500.9	500.9	851.5	851.5	851.5
5.81	2.03	2.03	2.04	2.05	2.96	4.73	6.43	2.05	3.00	4.92	6.83	2.08	2.09	2.10
464,710	454,100	457,850	473,600	458,270	436,100	404,540	378,860	464,390	464,710	464,710	464,710	454,100	457,850	473,600
180,890	260,150	263,000	268,330	270,370	263,580	241,380	221,550	270,350	267,030	252,340	238,080	302,110	304,870	310,320
645,610	714,250	720,860	741,940	728,650	699,680	645,920	600,420	734,740	731,740	717,060	702,800	756,210	762,720	783,920
2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160
643,450	712,090	718,700	739,780	726,490	697,520	643,760	598,260	732,580	729,580	714,900	700,640	754,050	760,560	781,760
6,403	6,425	6,398	6,306	6,301	6,337	6,487	6,660	6,301	6,332	6,462	6,593	6,532	6,507	6,415
5,774	5,793	5,768	5,685	5,682	5,714	5,849	6,005	5,681	5,709	5,826	5,945	5,889	5,866	5,784
6,649	6,573	6,581	6,674	6,666	6,471	6,066	5,746	6,675	6,670	6,670	6,670	6,588	6,596	6,689
1,882,011	1,760,631	1,762,156	1,789,520	1,792,750	1,754,423	1,659,248	1,585,495	1,795,005	1,808,586	1,828,479	1,849,610	1,762,179	1,764,685	1,791,050
1,333,377	1,315,894	1,316,454	1,333,280	1,327,316	1,282,919	1,194,643	1,127,619	1,328,274	1,325,322	1,325,322	1,325,322	1,310,266	1,310,825	1,327,652
196	162	162	162	162	166	169	174	162	167	174	181	160	160	160
10.67	9.64	9.60	9.55	9.64	9.58	9.35	9.21	9.56	9.50	9.50	9.50	8.82	8.78	8.74
4.65	5.23	5.25	5.25	5.15	5.11	5.13	5.16	5.19	5.19	5.19	5.19	5.61	5.63	5.62
10.17	10.15	10.24	10.44	10.93	11.53	12.42	12.88	10.99	11.20	11.20	11.20	10.89	10.98	11.16
73.58	74.04	73.98	73.83	73.36	72.87	72.19	71.85	73.34	73.18	73.18	73.18	73.75	73.69	73.55
0.93	0.93	0.93	0.93	0.92	0.91	0.90	0.90	0.92	0.92	0.92	0.92	0.93	0.92	0.92
28.28	28.33	28.32	28.30	28.24	28.17	28.07	28.03	28.23	28.21	28.21	28.21	28.28	28.28	28.26
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
36.0	40.0	40.0	41.0	40.0	39.0	37.0	35.0	40.0	40.0	40.0	40.0	43.0	43.0	44.0
0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
22.0	25.0	25.0	25.0	25.0	24.0	22.0	21.0	25.0	25.0	25.0	25.0	26.0	27.0	27.0
0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
7.00	14.00	14.00	15.00	14.00	14.00	13.00	13.00	14.00	14.00	14.00	14.00	15.00	15.00	16.00
0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12.0	14.0	14.0	14.0	14.0	13.0	13.0	12.0	14.0	14.0	14.0	14.0	15.0	15.0	15.0
0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
7.0	8.0	8.0	8.0	8.0	8.0	7.0	7.0	8.0	8.0	8.0	8.0	9.0	9.0	9.0
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
25.00	35.00	35.00	35.00	35.00	34.00	32.00	31.00	35.00	35.00	35.00	35.00	42.00	42.00	42.00
0.00600	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00800	0.00900	0.00900	0.00900
25.00	35.00	35.00	35.00	35.00	34.00	32.00	31.00	35.00	35.00	35.00	35.00	42.00	42.00	42.00
0.006	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
31.0	34.0	34.0	35.0	34.0	33.0	31.0	30.0	34.0	34.0	34.0	34.0	37.0	37.0	37.0
0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
539,500	598,800	601,900	610,600	599,300	578,600	546,600	521,500	604,200	604,700	604,700	604,700	644,700	647,700	656,400
131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0
539,000	532,900	535,900	544,700	533,300	512,700	480,700	455,600	538,300	538,800	538,800	538,800	532,900	535,900	544,700

Appendix B-1c
Mitsubishi Performance Data for Natural Gas-Firing
Canadys Station | Walterboro, South Carolina
March 2026

Thermal Performance Estimates FOR INFORMATION ONLY Dominion Energy Canadys 20-0379 2 13-Jan-2026 W. Herrington 1x1 (MS) Multi-Shaft Combined-Cycle Power Train MS01JAC Air-Cooled Condenser Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₅ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂ Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₅ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂ Notes 1. For assumptions and clarifications, please refer to notes provided on separate page.														
NG26	NG27	NG28	NG29	NG30	NG31	NG32	NG33	NG34	NG35	NG36	NG37	NG38	NG39	NG40
Duct Fired	Duct Fired	Duct Fired	Duct Fired	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Duct Fired w/ Chiller	Part Load	Part Load	Part Load	Part Load	Part Load	Part Load	Part Load
59.0	80.0	98.0	110.0	59.0	80.0	98.0	110.0	-10.0	0.0	29.0	59.0	80.0	98.0	110.0
14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
60.0	50.0	43.0	35.0	60.0	50.0	43.0	35.0	57.0	57.0	57.0	60.0	50.0	43.0	35.0
Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State
Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100%	100%	100%	100%	100%	100%	100%	100%	70%	70%	70%	70%	70%	70%	70%
OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
1.00	0.98	0.89	0.82	1.00	1.04	1.08	1.10	0.54	0.55	0.62	0.55	0.55	0.52	0.49
428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	393.1	393.4	395.8	391.9	393.2	392.7	391.6
23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4
175,613	168,825	158,304	150,025	177,239	177,410	177,410	177,410	133,154	133,204	135,891	128,433	125,326	119,697	114,703
4,077	3,920	3,675	3,483	4,115	4,119	4,119	4,119	3,092	3,093	3,155	2,982	2,910	2,779	2,663
3,676	3,534	3,314	3,141	3,711	3,714	3,714	3,714	2,788	2,789	2,845	2,689	2,624	2,506	2,401

ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
36,676	36,680	36,691	36,702	36,676	36,676	36,676	36,676	0	0	0	0	0	0	0
851.5	851.6	851.8	852.1	851.4	851.5	851.5	851.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.10	3.33	5.29	7.17	2.10	3.36	5.50	7.62	1.91	1.91	1.92	1.91	2.11	3.52	4.89
458,270	436,100	404,540	378,860	464,390	464,710	464,710	464,710	316,980	319,620	330,660	319,890	304,350	282,430	264,750
312,510	305,640	282,330	261,060	312,470	309,160	293,430	277,840	157,560	157,990	162,690	154,500	155,580	142,070	129,610
770,790	741,740	686,870	639,930	776,860	773,880	758,150	742,560	474,550	477,620	493,360	474,390	459,930	424,510	394,360
2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160
768,630	739,580	684,710	637,770	774,700	771,720	755,990	740,400	472,390	475,460	491,200	472,230	457,770	422,350	392,200
6,412	6,451	6,612	6,797	6,411	6,440	6,574	6,713	6,544	6,504	6,423	6,314	6,356	6,580	6,790
5,781	5,816	5,961	6,129	5,780	5,807	5,928	6,053	5,900	5,864	5,791	5,693	5,731	5,932	6,122
6,681	6,486	6,081	5,761	6,690	6,686	6,686	6,686	5,037	5,049	5,236	4,920	4,835	4,635	4,449
1,792,916	1,745,722	1,649,755	1,579,717	1,795,408	1,799,288	1,816,342	1,840,241	1,353,623	1,357,236	1,413,458	1,327,024	1,306,573	1,266,220	1,223,376
1,321,687	1,277,291	1,189,015	1,121,993	1,322,646	1,319,694	1,319,694	1,319,694	1,018,834	1,021,248	1,058,866	989,953	968,705	923,349	883,911
160	160	163	169	160	161	167	175	166	166	168	166	165	170	173
8.83	8.75	8.47	8.28	8.75	8.70	8.70	8.70	10.97	10.99	11.11	10.94	10.88	10.77	10.72
5.52	5.49	5.54	5.59	5.56	5.56	5.56	5.56	4.62	4.61	4.53	4.55	4.50	4.47	4.46
11.65	12.27	13.20	13.70	11.71	11.92	11.92	11.92	8.99	9.00	9.06	9.76	10.38	11.16	11.55
73.08	72.58	71.89	71.54	73.06	72.90	72.90	72.90	74.48	74.46	74.37	73.83	73.32	72.69	72.37
0.92	0.91	0.90	0.90	0.92	0.92	0.92	0.92	0.94	0.94	0.93	0.93	0.92	0.91	0.91
28.19	28.12	28.03	27.97	28.19	28.17	28.17	28.17	28.40	28.40	28.39	28.31	28.24	28.15	28.11
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43.0	42.0	40.0	38.0	43.0	43.0	43.0	43.0	27.0	27.0	28.0	26.0	26.0	24.0	23.0
0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
26.0	26.0	24.0	23.0	27.0	27.0	27.0	27.0	17.0	17.0	17.0	16.0	16.0	15.0	14.0
0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
15.00	15.00	14.00	14.00	15.00	15.00	15.00	15.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.002
91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
15.0	14.0	14.0	13.0	15.0	15.0	15.0	15.0	9.0	9.0	10.0	9.0	9.0	8.0	8.0
0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
9.0	8.0	8.0	8.0	9.0	9.0	9.0	9.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
42.00	41.00	39.00	38.00	42.00	42.00	42.00	42.00	19.00	19.00	19.00	18.00	18.00	17.00	16.00
0.00900	0.00900	0.00900	0.00900	0.00900	0.00900	0.00900	0.00900	0.00600	0.00600	0.00600	0.00600	0.00600	0.00600	0.00600
42.00	41.00	39.00	38.00	42.00	42.00	42.00	42.00	19.00	19.00	19.00	18.00	18.00	17.00	16.00
0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.006	0.006	0.006	0.006	0.006	0.006	0.006
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
37.0	35.0	34.0	32.0	37.0	37.0	37.0	37.0	23.0	23.0	24.0	22.0	22.0	21.0	20.0
0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
645,100	624,400	592,500	567,300	650,000	650,500	650,500	650,500	404,700	404,900	413,100	390,400	381,000	363,800	348,700
131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0
533,300	512,700	480,700	455,600	538,300	538,800	538,800	538,800	404,500	404,600	412,700	390,100	380,600	363,500	348,300

Appendix B-1d
Mitsubishi Performance Data for Natural Gas-Firing
Canadys Station | Walterboro, South Carolina
March 2026

Thermal Performance Estimates FOR INFORMATION ONLY Dominion Energy Canadys 20-0379 2 13-Jan-2026 W. Herrington 1x1 (MS) Multi-Shaft Combined-Cycle Power Train MS01JAC Air-Cooled Condenser Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₅ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂ Natural Gas (mol%) 94.07% CH ₄ , 4.6% C ₂ H ₆ , 0.27% C ₃ H ₈ , 0.03% n-C ₄ H ₁₀ , 0.03% i-C ₄ H ₁₀ , 0.02% n-C ₅ H ₁₂ , 0.01% C ₆ H ₁₄ , 0.31% N ₂ , 0.02% O ₂ , 0.64% CO ₂ Notes 1. For assumptions and clarifications, please refer to notes provided on separate page.						
NG41	NG42	NG43	NG44	NG45	NG46	NG47
MECL	MECL	MECL	MECL	MECL	MECL	MECL
-10.0	0.0	29.0	59.0	80.0	98.0	110.0
14.65	14.65	14.65	14.65	14.65	14.65	14.65
57.0	57.0	57.0	60.0	50.0	43.0	35.0
Normal	Normal	Normal	Normal	Normal	Normal	Normal
Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State
Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL
1	1	1	1	1	1	1
46%	44%	38%	35%	36%	41%	45%
OFF	OFF	OFF	OFF	OFF	OFF	OFF
0.65	0.63	0.60	0.60	0.63	0.66	0.64
398.6	397.7	395.5	394.8	396.9	399.4	398.9
23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4	20,932.4
117,760	114,764	106,933	101,160	101,040	103,738	102,998
2,734	2,665	2,483	2,349	2,346	2,409	2,392
2,465	2,403	2,239	2,118	2,116	2,172	2,156

OFF	OFF	OFF	OFF	OFF	OFF	OFF
23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5	23,214.5
0	0	0	0	0	0	0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.92	1.91	1.91	1.91	2.12	3.61	5.03
207,920	200,010	178,040	158,870	155,070	165,930	169,280
162,070	160,170	155,560	153,410	155,980	148,660	137,280
370,000	360,190	333,600	312,290	311,060	314,600	306,570
2,160	2,160	2,160	2,160	2,160	2,160	2,160
367,840	358,030	331,440	310,130	308,900	312,440	304,410
7,432	7,442	7,490	7,573	7,594	7,708	7,855
6,701	6,710	6,753	6,828	6,847	6,950	7,082
5,452	5,329	5,019	4,889	4,932	5,010	4,956
1,474,666	1,437,657	1,346,396	1,312,430	1,331,433	1,375,547	1,375,051
1,118,514	1,093,094	1,028,667	999,546	1,003,896	1,013,097	999,188
172	170	166	165	167	176	181
12.73	12.75	12.80	12.91	12.86	12.62	12.52
3.82	3.81	3.77	3.65	3.60	3.63	3.64
7.38	7.38	7.52	7.93	8.59	9.50	9.92
75.17	75.16	75.02	74.61	74.06	73.37	73.05
0.90	0.90	0.90	0.89	0.89	0.88	0.88
28.50	28.50	28.48	28.43	28.35	28.25	28.21
2.0	2.0	2.0	2.0	2.0	2.0	2.0
24.0	24.0	22.0	21.0	21.0	21.0	21.0
0.009	0.009	0.009	0.009	0.009	0.009	0.009
2.0	2.0	2.0	2.0	2.0	2.0	2.0
15.0	15.0	14.0	13.0	13.0	13.0	13.0
0.006	0.006	0.006	0.006	0.006	0.006	0.006
1.0	1.0	1.0	1.0	1.0	1.0	1.0
5.00	5.00	4.00	4.00	4.00	4.00	4.00
0.002	0.002	0.002	0.002	0.002	0.002	0.002
91.0	91.0	91.0	91.0	91.0	91.0	91.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0
0.001	0.001	0.001	0.001	0.001	0.001	0.001
8.0	8.0	7.0	7.0	7.0	7.0	7.0
0.004	0.004	0.004	0.004	0.004	0.004	0.004
5.0	5.0	5.0	4.0	4.0	4.0	4.0
0.002	0.002	0.002	0.002	0.002	0.002	0.002
18.00	18.00	16.00	16.00	16.00	16.00	16.00
0.00700	0.00700	0.00700	0.00700	0.00700	0.00700	0.00700
18.00	18.00	16.00	16.00	16.00	16.00	16.00
0.007	0.007	0.007	0.007	0.007	0.007	0.007
5.0	5.0	5.0	5.0	5.0	5.0	5.0
21.0	20.0	19.0	18.0	18.0	18.0	18.0
0.008	0.008	0.008	0.008	0.008	0.008	0.008
358,000	348,900	325,000	307,500	307,100	315,300	313,100
131.0	131.0	131.0	131.0	131.0	131.0	131.0
357,600	348,600	324,800	307,300	306,900	315,100	312,900

End of NG Performance Data

Appendix B-2a
Mitsubishi Performance Data for Fuel Oil-Firing
Canadys Station | Walterboro, South Carolina
March 2026

A. PROJECT INFORMATION	
Title Purpose Customer Name Project Name Mitsubishi Power Reference Number Revision Number/Letter Revision Date Revision Author Cycle Arrangement Mitsubishi Power Scope Gas Turbine Model Heat Rejection System Gas Turbine Fuel Analysis GT Fuel GT Fuel Analysis	
CUSTOMER CASE #	
PERFORMANCE CASE DESCRIPTION	
Case Notes Ambient Dry Bulb Temperature Barometric Pressure Relative Humidity Type of Operation (Normal/Abnormal) Type of Operation (Steady-State, Transient) Type of Operation (Above MECL / Below MECL) Number of GT's in Operation GT Load (as % of baseload) Expected Chiller Pressure Loss	°F psia % % inH2O
GAS TURBINE PERFORMANCE SUMMARY (PER GT)	
GT Injection Flow (Water Injection) GT Injection Ratio (Injection Flow / Fuel Flow) GT Fuel GT Fuel Gas Heating Temperature GT Fuel Heating Value, HHV GT Fuel Heating Value, LHV GT Fuel Consumption (per GT) GT Heat Consumption, HHV (per GT) GT Heat Consumption, LHV (per GT)	lb/h - °F Btu/lb Btu/lb lb/h MMBtu/h MMBtu/h

PLANT PERFORMANCE SUMMARY	
ST Back Pressure	inHga
Estimated Gross Power Train Performance	
Estimated Gross GTG Output (Multi-Shaft) Total	kW
Estimated Gross STG Output (Multi-Shaft)	kW
Estimated Gross Power Train Output	kW
Estimated Power Train Auxiliary Loads	
Estimated Power Train Auxiliary Loads (Mitsubishi Power)	kW
Estimated Net Power Train Performance	
Estimated Net Power Train Output	kW
Estimated Net Power Train Heat Rate, HHV	Btu/kWh
Estimated Net Power Train Heat Rate, LHV	Btu/kWh
STACK EXHAUST CONDITIONS AND EMISSIONS SUMMARY (PER STACK)	
Stack Exhaust Flow (Mass)	kpph
Stack Exhaust Flow (Volume) - Actual	ft3/min
Stack Exhaust Flow (Volume) - DSCFM	ft3/min
Stack Exhaust Gas Temperature	°F
Stack Exhaust Gas Composition	mol%
	CO2 mol%
	H2O mol%
	N2 mol%
	Ar mol%
Stack Exhaust Gas Molecular Weight	
STACK EXHAUST EMISSIONS (PER STACK)	
NOx	ppmvd@15% O2
NOx	lb/h
NOx	lb/MMBtu - HHV
CO	ppmvd@15% O2
CO	lb/h
CO	lb/MMBtu - HHV
VOC (includes Formadehyde)	ppmvd@15% O2
VOC (includes Formadehyde)	lb/h
VOC (includes Formadehyde)	lb/MMBtu - HHV
Formaldehyde (CH2O)	ppbvd@15% O2
Formaldehyde (CH2O)	lb/h
Formaldehyde (CH2O)	lb/MMBtu - HHV
H2SO4	lb/h
H2SO4	lb/MMBtu - HHV
SO2 (before conversion to SO3)	lb/h
SO2 (before conversion to SO3)	lb/MMBtu - HHV
Particulates (PM10 Filterable)	lb/h
Particulates (PM10 Filterable)	lb/MMBtu - HHV
Particulates (PM10 Condensable, as (NH4)2SO4)	lb/h
Particulates (PM10 Condensable, as (NH4)2SO4)	lb/MMBtu - HHV
Ammonia Slip (NH3)	ppmvd@15% O2
Ammonia Slip (NH3)	lb/h
Ammonia Slip (NH3)	lb/MMBtu - HHV
CO2e (i.e. CO2 equivalent) (based on EPA Emission Factor)	lb/h
CO2e (i.e. CO2 equivalent) (based on EPA Emission Factor)	lb/MMBtu - HHV
Estimated CO2 (based on EPA Emission Factor), For Information Only	lb/h

Appendix B-2b
Mitsubishi Performance Data for Fuel Oil-Firing
Canadys Station | Walterboro, South Carolina
March 2026

Thermal Performance Estimates

FOR INFORMATION ONLY

Dominion Energy

Canadys

20-0379

1

13-Jan-2026

W. Herrington

1x1 (MS) Multi-Shaft Combined-Cycle

Power Train

M501JAC

Air-Cooled Condenser

Fuel Oil

Fuel Oil Composition: 86.0% Carbon, 14.0% Hydrogen

Notes

1. For assumptions and clarifications, please refer to notes provided on separate page.

FO1	FO2	FO3	FO4	FO5	FO6	FO7	FO8	FO9	FO10
Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Part Load	Part Load	Part Load
-10.0	0.0	29.0	59.0	80.0	98.0	110.0	-10.0	0.0	29.0
14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650
57.0	57.0	57.0	60.0	50.0	43.0	35.0	57.0	57.0	57.0
Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State
Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL
1	1	1	1	1	1	1	1	1	1
100%	100%	100%	100%	100%	100%	100%	70%	70%	70%
0.77	0.78	0.86	0.97	0.98	0.89	0.81	0.45	0.49	0.52
157,238	158,766	163,312	164,198	158,693	148,506	140,624	122,806	124,638	126,168
0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2
18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0
169,548	171,183	176,049	176,978	171,058	160,126	151,669	132,453	134,428	136,077
3,348	3,380	3,476	3,495	3,378	3,162	2,995	2,616	2,655	2,687
3,137	3,167	3,257	3,275	3,165	2,963	2,806	2,451	2,487	2,518

1.89	1.89	1.89	1.90	2.01	3.32	4.60	1.86	1.87	1.87
342,780	351,560	371,990	372,550	354,930	326,400	303,800	239,550	245,670	256,170
133,560	134,140	137,900	142,410	141,630	128,380	117,440	119,610	120,840	122,160
476,340	485,700	509,890	514,970	496,570	454,780	421,240	359,160	366,520	378,340
2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660
473,680	483,040	507,230	512,310	493,910	452,120	418,580	356,500	363,860	375,680
7,067	6,997	6,853	6,821	6,838	6,993	7,154	7,336	7,295	7,152
6,622	6,556	6,421	6,391	6,407	6,552	6,703	6,873	6,835	6,701
6,216	6,279	6,516	6,725	6,602	6,187	5,861	4,727	4,842	4,944
2,039,400	2,060,875	2,143,517	2,220,784	2,184,632	2,050,607	1,942,602	1,541,637	1,580,558	1,616,275
1,246,042	1,258,491	1,305,295	1,343,730	1,314,799	1,224,720	1,157,253	945,300	969,011	988,517
307	307	308	309	309	308	307	302	303	303
11.33	11.34	11.37	11.50	11.52	11.38	11.32	11.06	11.15	11.20
5.55	5.55	5.50	5.34	5.25	5.23	5.22	5.70	5.65	5.60
9.43	9.45	9.57	9.99	10.49	11.32	11.68	9.68	9.62	9.76
72.77	72.75	72.65	72.26	71.85	71.18	70.89	72.64	72.66	72.53
0.91	0.91	0.91	0.90	0.90	0.89	0.89	0.91	0.91	0.91
28.52	28.52	28.50	28.44	28.37	28.28	28.24	28.51	28.51	28.49
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
78.0	78.0	81.0	81.0	79.0	74.0	70.0	61.0	62.0	63.0
0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
19.0	19.0	19.7	19.7	19.3	18.0	17.0	15.0	15.0	15.3
0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11.0	11.0	11.3	11.3	11.0	10.3	9.7	8.7	8.7	8.7
0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12.0	12.0	12.0	12.0	12.0	11.0	11.0	9.0	9.0	9.0
0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
7.0	7.0	7.0	7.0	7.0	6.0	6.0	5.0	5.0	5.0
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
86.0	87.0	90.0	93.0	90.0	84.0	80.0	66.0	68.0	69.0
0.026	0.026	0.026	0.027	0.027	0.027	0.027	0.026	0.026	0.026
86.0	87.0	90.0	93.0	90.0	84.0	80.0	66.0	68.0	69.0
0.026	0.026	0.026	0.027	0.027	0.027	0.027	0.026	0.026	0.026
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
27.0	27.0	28.0	28.0	27.0	25.0	24.0	21.0	21.0	22.0
0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
599,700	605,500	622,700	626,000	605,100	566,400	536,500	468,500	475,500	481,300
179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2
597,800	603,500	620,600	624,000	603,100	564,600	534,700	467,100	474,000	484,200

Appendix B-2c
Mitsubishi Performance Data for Fuel Oil-Firing
Canadys Station | Walterboro, South Carolina
March 2026

Thermal Performance Estimates

FOR INFORMATION ONLY

Dominion Energy

Canadys

20-0379

1

13-Jan-2026

W. Herrington

1x1 (MS) Multi-Shaft Combined-Cycle

Power Train

M501JAC

Air-Cooled Condenser

Fuel Oil

Fuel Oil Composition: 86.0% Carbon, 14.0% Hydrogen

Notes

1. For assumptions and clarifications, please refer to notes provided on separate page.

FO11	FO12	FO13	FO14	FO15	FO16	FO17	FO18	FO19	FO20	FO21
Part Load	Part Load	Part Load	Part Load	MECL	MECL	MECL	MECL	MECL	MECL	MECL
59.0	80.0	98.0	110.0	-10.0	0.0	29.0	59.0	80.0	98.0	110.0
14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650	14.650
60.0	50.0	43.0	35.0	57.0	57.0	57.0	60.0	50.0	43.0	35.0
Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State	Steady-State
Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL	Above MECL
1	1	1	1	1	1	1	1	1	1	1
70%	70%	70%	70%	68%	60%	60%	60%	60%	60%	60%
0.52	0.52	0.49	0.46	0.44	0.39	0.47	0.52	0.52	0.44	0.38
125,604	121,512	115,251	110,169	120,597	113,194	116,702	116,682	113,245	106,717	101,347
0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2	19,743.2
18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0
135,469	131,055	124,304	118,822	130,071	122,086	125,870	125,850	122,141	115,101	109,307
2,675	2,588	2,455	2,346	2,569	2,411	2,486	2,485	2,412	2,273	2,159
2,507	2,425	2,300	2,199	2,407	2,259	2,329	2,329	2,260	2,130	2,023

1.87	1.87	3.04	4.27	1.86	1.86	1.86	1.87	1.86	3.01	4.20
260,160	247,940	228,060	212,320	232,640	210,280	222,440	222,750	212,210	195,170	181,560
123,090	122,960	113,390	104,260	118,790	115,310	119,360	121,320	121,440	109,960	99,640
383,260	370,900	341,450	316,590	351,430	325,590	341,810	344,080	333,650	305,140	281,210
2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660	2,660
380,600	368,240	338,790	313,930	348,770	322,930	339,150	341,420	330,990	302,480	278,550
7,028	7,027	7,244	7,473	7,363	7,464	7,328	7,278	7,286	7,513	7,748
6,585	6,584	6,788	7,002	6,899	6,994	6,866	6,819	6,827	7,040	7,260
4,941	4,823	4,588	4,397	4,634	4,359	4,601	4,701	4,615	4,266	3,973
1,619,988	1,584,850	1,511,349	1,449,248	1,510,591	1,419,147	1,501,012	1,539,270	1,514,703	1,408,290	1,317,682
983,905	956,625	904,814	865,010	926,625	871,678	920,546	938,142	917,583	835,892	768,990
304	303	303	302	301	300	302	303	303	302	301
11.12	11.09	10.97	10.93	11.06	11.07	11.25	11.35	11.34	10.84	10.41
5.56	5.50	5.46	5.44	5.71	5.70	5.57	5.43	5.36	5.42	5.50
10.35	10.92	11.72	12.05	9.70	9.70	9.69	10.13	10.67	12.60	14.17
72.07	71.58	70.96	70.69	72.62	72.61	72.57	72.19	71.73	70.26	69.05
0.90	0.90	0.89	0.89	0.91	0.91	0.91	0.90	0.90	0.88	0.87
28.42	28.35	28.26	28.22	28.51	28.51	28.49	28.43	28.36	28.16	27.99
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
62.0	60.0	57.0	55.0	60.0	56.0	58.0	58.0	56.0	53.0	50.0
0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
15.3	14.7	14.0	13.3	14.7	13.7	14.0	14.0	13.7	13.0	12.3
0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
8.7	8.7	8.0	7.7	8.3	8.0	8.3	8.3	8.0	7.3	7.0
0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
9.0	9.0	9.0	8.0	9.0	9.0	9.0	9.0	9.0	8.0	8.0
0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
68.0	67.0	63.0	60.0	65.0	61.0	64.0	65.0	64.0	58.0	54.0
0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.026	0.025
68.0	67.0	63.0	60.0	65.0	61.0	64.0	65.0	64.0	58.0	54.0
0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.026	0.025
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
21.0	21.0	20.0	19.0	21.0	19.0	20.0	20.0	19.0	18.0	17.0
0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
479,200	463,600	439,700	420,300	460,100	431,900	445,200	445,200	432,100	407,100	386,700
179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2
477,600	462,100	438,300	418,900	458,700	430,500	443,900	443,700	430,700	405,800	385,500

End of FO Performance Data

