SC DEPARTMENT of ENVIRONMENTAL SERVICES

Bureau of Air Quality
Synthetic Minor Construction Permit

Valara Holdings High Performance Compute Center
4000 South Pine Street
Spartanburg, South Carolina 29302
Spartanburg County

In accordance with the provisions of the Pollution Control Act, Sections 48-1-50(5), 48-1-100(A), and 48-1-110(a), the 1976 Code of Laws of South Carolina, as amended, and South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards, the Bureau of Air Quality authorizes the construction of this facility and the equipment specified herein in accordance with the plans, specifications, and other information submitted in the construction permit application received on May 22, 2025, as amended. All official correspondence, plans, permit applications, and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction permit may be grounds for permit revocation.

The construction and subsequent operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

Permit Number: **CP-50000316 v1.1**
Agency Air Number: **2060-0674**

Issue Date: **September 17, 2025**

Steve McCaslin, P. E., Director
Air Permitting Division
Bureau of Air Quality

RECORD OF REVISIONS

Date	Description of Changes
04-21-2026	Added temporary engines to equipment table. Added temporary engine conditions B.17-B.21. Temporary engines added to list of applicable equipment in condition B.4. Added header to NSPS JJJJ conditions. Updated project description.

A. PROJECT DESCRIPTION, EQUIPMENT, AND CONTROL DEVICE(S)

Permission is hereby granted to construct twenty-four permanent natural gas fired generators with selective catalytic reduction and oxidation catalyst control devices and twenty-one temporary natural gas fired generators. This permit will establish federally enforceable limits on NO_x, CO, VOC, and hazardous air pollutant (HAP) emissions to avoid classification as a major source under Prevention of Significant Deterioration (PSD), Title V, and National Emission Standards for Hazardous Air Pollutants regulations.

A.1 EQUIPMENT

Equipment ID	Equipment Description	Control Device ID	Emission Point ID
GEN	Twenty-Four 2103 kW Natural Gas Fired Generators	SCR, OX	Various
TEMPGEN	Twenty-One 1500 kW Natural Gas Fired Generators	None	Various

A.2 CONTROL DEVICES

Control Device ID	Control Device Description	Pollutant(s) Controlled	Emission Point ID
SCR	Selective Catalytic Reduction	NO_x	Various
OX	Oxidation Catalyst	CO, VOC, HAP	Various

B. LIMITATIONS, MONITORING, AND REPORTING

Condition Number	Conditions
B.1	**Facility Wide** (S.C. Regulation 61-62.1, Section II(E)) This facility is a potential Title V major source for NO_x, CO, VOC and hazardous air pollutants (HAP) emissions. The facility has requested federally enforceable emissions limitations to limit its potential to emit to less than 100.0 tons per year for NO_x, CO, and VOC emissions, each, and 10.0 tons per year for any single HAP emission and 25.0 tons per year for any combination of HAP emissions to avoid Title V. (S.C. Regulation 61-62.1, Section II(E)) This facility is a potential PSD major source for NO_x, CO, and VOC emissions. This facility is a potential MACT major source for HAP emissions. The facility has requested federally enforceable emissions limitations to limit its potential to emit to less than 250.0 tons per year for NO_x, CO, and VOC emissions, each to avoid PSD and 10.0 tons per year for any single HAP emission and 25.0 tons per year for any combination of HAP emissions to avoid MACT.
B.2	**Equipment ID:** GEN **Control Device ID:** SCR, OX

B. LIMITATIONS, MONITORING, AND REPORTING

Condition Number	Conditions
	(S.C. Regulation 61-62.1, Section II(E) and II(J)(2)) The owner or operator shall maintain records of control device specifications, engine specifications, hour meter records, manufacturer's emission factors, and any other records necessary to determine VOC and HAP emissions such as fuel usage or source testing data. VOC, individual HAP and total HAP emissions shall be calculated monthly, and a twelve-month rolling sum shall be calculated monthly. Facility-wide emission totals must include emissions from exempt activities. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve-month rolling sum shall be less than 100.0 tons for VOC, 10.0 tons for each individual HAP, and 25.0 tons for total HAPs. Reports of the input values, calculated values, and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. The facility shall calculate monthly emissions for each source using the following formulas prior to initial source testing: $$Monthly\ Formaldehyde\ Emissions\ (ton) = \frac{EF_f * R * H * \left(1 - D_f\right)}{C_1 * C_2}$$ $$Total\ Monthly\ VOC\ Emissions\ (ton) = \frac{EF_{voc} * R * H * (1 - D_{voc})}{C_1 * C_2} + \frac{EF_f * R * H * \left(1 - D_f\right)}{C_1 * C_2}$$ $$Monthly\ Other\ Single\ HAP\ Emissions\ (ton) = \frac{EF_{HAP} * F * H * (1 - D_{HAP})}{C_2}$$ $$Total\ Monthly\ HAP\ Emissions\ (ton) = \sum^{All\ HAPs} \frac{EF_{HAP} * F * H * (1 - D_{HAP})}{C_2} + \frac{EF_f * R * H * \left(1 - D_f\right)}{C_1 * C_2}$$ Where: EF_{voc} = Uncontrolled manufacturer's emission factor for VOC (g/(bhp-hr)) EF_f = Uncontrolled manufacturer's emission factor for formaldehyde (g/(bhp-hr)) EF_{HAP} = AP-42 Emission factor for a specific HAP (lb/10^6 Btu) R = brake horsepower rating of engine (bhp) F = fuel consumption of engine (10^6 Btu/hr) H = hours of operation that month (hr) D_{voc} = control device efficiency for VOC (%) D_f = control device efficiency for formaldehyde (%) D_{HAP} = control device efficiency for other HAPs (%) C_1 = conversion factor between g and lb (453.592 g/lb) C_2 = conversion factor between lb and ton (2000 lb/ton) The facility shall calculate monthly emissions for each source using the following formulas after source testing:

B. LIMITATIONS, MONITORING, AND REPORTING

Condition Number	Conditions
	$$Monthly\ Formaldehyde\ Emissions\ (ton) = \frac{EF_f * R * H}{C_1 * C_2}$$ $$Total\ Monthly\ VOC\ Emissions\ (ton) = \frac{EF_{voc} * R * H}{C_1 * C_2} + \frac{EF_f * R * H}{C_1 * C_2}$$ $$Monthly\ Other\ Single\ HAP\ Emissions\ (ton) = \frac{EF_{HAP} * F * H * (1 - D_{HAP})}{C_2}$$ $$Total\ Monthly\ HAP\ Emissions\ (ton) = \sum^{All\ HAPs} \frac{EF_{HAP} * F * H * (1 - D_{HAP})}{C_2} + \frac{EF_f * R * H}{C_1 * C_2}$$ Where: EF_{voc} = Controlled emission factor derived from most recent source test for VOC(g/(bhp-hr)) EF_f = Controlled emission factor derived from most recent source test for formaldehyde (g/(bhp-hr)) EF_{HAP} = AP-42 Emission factor for a specific HAP (lb/10^6 Btu) R = brake horsepower rating of engine (bhp) F = fuel consumption of engine (10^6 Btu/hr) H = hours of operation that month (hr) D_{HAP} = control device efficiency for other HAPs (%) C_1 = conversion factor between g and lb (453.592 g/lb) C_2 = conversion factor between lb and ton (2000 lb/ton)
B.3	**Equipment ID:** GEN **Control Device ID:** SCR, OX (S.C. Regulation 61-62.1, Section II(E) and II(J)(2)) The owner or operator shall maintain records of control device specifications, engine specifications, hour meter records, manufacturer's emission factors, and any other records necessary to determine facility wide NO_x and CO emissions such as fuel usage or source testing data. NO_x and CO emissions shall be calculated on a monthly basis, and a twelve month rolling sum shall be calculated for total NO_x and CO emissions. Facility-wide emission totals must include emissions from exempt activities. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve month rolling sum shall be less than 100.0 tons each for NO_x and CO. Reports of the input values, calculated values, and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. The facility shall calculate monthly emissions for each source using the following formulas prior to initial source testing: $$Monthly\ NO_x\ Emissions\ (ton) = \frac{EF_{nox} * R * H * (1 - D_{nox})}{C_1 * C_2}$$ $$Monthly\ CO\ Emissions\ (ton) = \frac{EF_{co} * R * H * (1 - D_{co})}{C_1 * C_2}$$

B. LIMITATIONS, MONITORING, AND REPORTING

Condition Number	Conditions
	Where: EF_{nox} = Uncontrolled manufacturer's emission factor for NO_x (g/(bhp-hr) EF_{co} =Uncontrolled manufacturer's emission factor for CO (g/(bhp-hr) R = brake horsepower rating of engine (bhp) H = hours of operation that month (hr) D_{nox} = control device efficiency for NO_x (%) D_{co} = control device efficiency for CO (%) C_1 = conversion factor between g and lb (453.592 g/lb) C_2 = conversion factor between lb and ton (2000 lb/ton) The facility shall calculate monthly emissions for each source using the following formulas after source testing: $$Monthly\ NO_x\ Emissions\ (ton) = \frac{EF_{nox} * R * H}{C_1 * C_2}$$ $$Monthly\ CO\ Emissions\ (ton) = \frac{EF_{co} * R * H}{C_1 * C_2}$$ Where: EF_{nox} = Controlled emission factor derived from most recent source test for NO_x (g/(bhp-hr) EF_{co} = Controlled emission factor derived from most recent source test for CO (g/(bhp-hr) R = brake horsepower rating of engine (bhp) H = hours of operation that month (hr) C_1 = conversion factor between g and lb (453.592 g/lb) C_2 = conversion factor between lb and ton (2000 lb/ton)
B.4	**Equipment ID:** GEN, TEMPGEN **Control Device ID:** SCR, OX (S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from this source (including fugitive emissions) shall not exhibit an opacity greater than 20%.
B.5	**Equipment ID:** GEN **Control Device ID:** SCR, OX (S.C. Regulation 61-62.60; 40 CFR 60) This source is subject to New Source Performance Standards (NSPS), Subpart A, General Provisions and Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, as applicable. This source shall comply with all applicable requirements of Subparts A (applicable as shown in Table 3 of Subpart JJJJ) and JJJJ.
B.6	**Equipment ID:** GEN **Control Device ID:** SCR, OX NSPS Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion

B. LIMITATIONS, MONITORING, AND REPORTING

Condition Number	Conditions
	Engines § 60.4230 Am I subject to this subpart? (a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary spark ignition (SI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (6) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator. (4) Owners and operators of stationary SI ICE that commence construction after June 12, 2006, where the stationary SI ICE are manufactured: (i) On or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP); (6) The provisions of § 60.4236 of this subpart are applicable to all owners and operators of stationary SI ICE that commence construction after June 12, 2006.
B.7	**Equipment ID:** GEN **Control Device ID:** SCR, OX NSPS Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines § 60.4233 What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine? (e) Owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards in Table 1 to this subpart for their stationary SI ICE. For owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 100 HP (except gasoline and rich burn engines that use LPG) manufactured prior to January 1, 2011 that were certified to the certification emission standards in 40 CFR part 1048 applicable to engines that are not severe duty engines, if such stationary SI ICE was certified to a carbon monoxide (CO) standard above the standard in Table 1 to this subpart, then the owners and operators may meet the CO certification (not field testing) standard for which the engine was certified.

Table 1 to Subpart JJJJ of Part 60—NO_X, CO, and VOC Emission Standards for Stationary Non-Emergency SI Engines ≥100 HP (Except Gasoline and Rich Burn LPG), Stationary SI Landfill/Digester Gas Engines, and Stationary Emergency Engines >25 HP

Engine type and fuel	Maximum engine power	Manufacture date	Emission standards	
			g/HP-hr	ppmvd at 15% O_2

B. LIMITATIONS, MONITORING, AND REPORTING

Condition Number	Conditions

			NO_X	CO	VOC	NO_X	CO	VOC
Non-Emergency SI Natural Gas and Non-Emergency SI Lean Burn LPG (except lean burn 500≤HP<1,350)	HP≥500	7/1/2007	2.0	4.0	1.0	160	540	86
	HP≥500	7/1/2010	1.0	2.0	0.7	82	270	60

B.8

Equipment ID: GEN
Control Device ID: SCR, OX

NSPS Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

§ 60.4234 How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine?

Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in § 60.4233 over the entire life of the engine.

B.9

Equipment ID: GEN
Control Device ID: SCR, OX

NSPS Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

§ 60.4243 What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?

(a) If you are an owner or operator of a stationary SI internal combustion engine that is manufactured after July 1, 2008, and must comply with the emission standards specified in § 60.4233(a) through (c), you must comply by purchasing an engine certified to the emission standards in § 60.4231(a) through (c), as applicable, for the same engine class and maximum engine power. In addition, you must meet one of the requirements specified in (a)(1) and (2) of this section.

(1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator. You must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance.

(2) If you do not operate and maintain the certified stationary SI internal combustion engine and

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	control device according to the manufacturer's emission-related written instructions, your engine will be considered a non-certified engine, and you must demonstrate compliance according to (a)(2)(i) through (iii) of this section, as appropriate. (iii) If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. (b) If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in § 60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) and (2) of this section. (1) Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph (a) of this section. (2) Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in § 60.4233(d) or (e) and according to the requirements specified in § 60.4244, as applicable, and according to paragraphs (b)(2)(i) and (ii) of this section. (ii) If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. (e) Owners and operators of stationary SI natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of § 60.4233. (g) It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/nonselective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

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B.10	**Equipment ID:** GEN **Control Device ID:** SCR, OX NSPS Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines § 60.4244 What test methods and other procedures must I use if I am an owner or operator of a stationary SI internal combustion engine? Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures in § 60.4244.
B.11	**Equipment ID:** GEN **Control Device ID:** SCR, OX NSPS Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines § 60.4245 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine? Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements. (a) Owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1) through (4) of this section. (1) All notifications submitted to comply with this subpart and all documentation supporting any notification. (2) Maintenance conducted on the engine. (3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 1048, 1054, and 1060, as applicable. (4) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to § 60.4243(a)(2), documentation that the engine meets the emission standards. (c) Owners and operators of stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in § 60.4231 must submit an initial notification as required in § 60.7(a)(1). The notification must include the information in

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	paragraphs (c)(1) through (5) of this section. Beginning on February 26, 2025 submit the notification electronically according to paragraph (g) of this section. (1) Name and address of the owner or operator; (2) The address of the affected source; (3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement; (4) Emission control equipment; and (5) Fuel used. (d) Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in § 60.4244 within 60 days after the test has been completed. Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference—see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results from sections 8.4 and 11.1.1.4; for Method 320, report results from sections 8.6.2, 9.0, and 13.0; and for ASTM D6348-03 report results of all QA/QC procedures in Annexes 1-7. Beginning on February 26, 2025, performance tests must be reported electronically according to paragraph (f) of this section. (f) Beginning on February 26, 2025, within 60 days after the date of completing each performance test, you must submit the results following the procedures specified in paragraph (g) of this section. Data collected using test methods that are supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website (*https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert*) at the time of the test must be submitted in a file format generated using the EPA's ERT. Alternatively, you may submit an electronic file consistent with the extensible markup language (XML) schema listed on the EPA's ERT website. Data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT website at the time of the test must be included as an attachment in the ERT or an alternate electronic file. (g) If you are required to submit notifications or reports following the procedure specified in this paragraph (g), you must submit notifications or reports to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (*https://cdx.epa.gov/*). The EPA will make all the information submitted through CEDRI available to the public without further notice to you. Do not use CEDRI to submit information you claim as CBI. Although we do not expect persons to assert a claim of CBI, if you wish to assert a CBI claim for some of the information in the report or notification, you must submit a complete file in the format specified in this subpart, including information claimed to be CBI, to the EPA following the procedures in paragraphs (g)(1) and (2) of this section. Clearly mark the part or all of the information that you claim to be CBI. Information not marked as CBI may be authorized for public release without prior notice. Information marked as CBI will not be disclosed except in accordance with procedures set forth in 40 CFR part 2. All CBI claims must be asserted at the time of submission. Anything submitted using CEDRI cannot later be claimed CBI. Furthermore, under CAA section 114(c), emissions data is

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	not entitled to confidential treatment, and the EPA is required to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. You must submit the same file submitted to the CBI office with the CBI omitted to the EPA via the EPA's CDX as described earlier in this paragraph (g). (1) The preferred method to receive CBI is for it to be transmitted electronically using email attachments, File Transfer Protocol, or other online file sharing services. Electronic submissions must be transmitted directly to the OAQPS CBI Office at the email address *oaqpscbi@epa.gov,* and as described in paragraph (g) of this section, should include clear CBI markings. ERT files should be flagged to the attention of the Group Leader, Measurement Policy Group; all other files should be flagged to the attention of the Stationary Spark Ignition Internal Combustion Engine Sector Lead. If assistance is needed with submitting large electronic files that exceed the file size limit for email attachments, and if you do not have your own file sharing service, please email *oaqpscbi@epa.gov* to request a file transfer link. (2) If you cannot transmit the file electronically, you may send CBI information through the postal service to the following address: OAQPS Document Control Officer (C404-02), OAQPS, U.S. Environmental Protection Agency, 109 T.W. Alexander Drive, P.O. Box 12055, Research Triangle Park, North Carolina 27711. ERT files should be sent to the attention of the Group Leader, Measurement Policy Group, and all other files should be sent to the attention of the Stationary Spark Ignition Internal Combustion Engine Sector Lead. The mailed CBI material should be double wrapped and clearly marked. Any CBI markings should not show through the outer envelope. (h) If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of EPA system outage for failure to timely comply with that reporting requirement. To assert a claim of EPA system outage, you must meet the requirements outlined in paragraphs (h)(1) through (7) of this section. (1) You must have been or will be precluded from accessing CEDRI and submitting a required report within the time prescribed due to an outage of either the EPA's CEDRI or CDX systems. (2) The outage must have occurred within the period of time beginning five business days prior to the date that the submission is due. (3) The outage may be planned or unplanned. (4) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting. (5) You must provide to the Administrator a written description identifying:

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	(i) The date(s) and time(s) when CDX or CEDRI was accessed and the system was unavailable; (ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to EPA system outage; (iii) A description of measures taken or to be taken to minimize the delay in reporting; and (iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported. (6) The decision to accept the claim of EPA system outage and allow an extension to the reporting deadline is solely within the discretion of the Administrator. (7) In any circumstance, the report must be submitted electronically as soon as possible after the outage is resolved. (i) If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of force majeure for failure to timely comply with that reporting requirement. To assert a claim of force majeure, you must meet the requirements outlined in paragraphs (i)(1) through (5) of this section. (1) You may submit a claim if a force majeure event is about to occur, occurs, or has occurred or there are lingering effects from such an event within the period of time beginning five business days prior to the date the submission is due. For the purposes of this section, a force majeure event is defined as an event that will be or has been caused by circumstances beyond the control of the affected facility, its contractors, or any entity controlled by the affected facility that prevents you from complying with the requirement to submit a report electronically within the time period prescribed. Examples of such events are acts of nature (*e.g.,* hurricanes, earthquakes, or floods), acts of war or terrorism, or equipment failure or safety hazard beyond the control of the affected facility (*e.g.,* large scale power outage). (2) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting. (3) You must provide to the Administrator: (i) A written description of the force majeure event; (ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to the force majeure event; (iii) A description of measures taken or to be taken to minimize the delay in reporting; and (iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported. (4) The decision to accept the claim of force majeure and allow an extension to the reporting

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	deadline is solely within the discretion of the Administrator. (5) In any circumstance, the reporting must occur as soon as possible after the force majeure event occurs. (j) Any records required to be maintained by this subpart that are submitted electronically via the EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an on-site compliance evaluation.
B.12	**Equipment ID:** GEN **Control Device ID:** SCR, OX (S.C. Regulation 61-62.1, Section II(J)(2)) The owner or operator shall inspect, calibrate, adjust, and maintain continuous monitoring systems, monitoring devices, and gauges in accordance with manufacturer's specifications or good engineering practices. The owner or operator shall maintain on file all measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required in a permanent form suitable for inspection by Department personnel. (S.C. Regulation 61-62.1, Section II(J)(1)(d)) Sources required to have continuous emission monitors shall submit reports as specified in applicable parts of the permit, law, regulations, or standards.
B.13	**Equipment ID:** GEN **Control Device ID:** SCR, OX (S.C. Regulation 61-62.1, Section II(J)(2)) All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (e.g., pressure drop readings, flow rates, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each occurrence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these occurrences shall be submitted semiannually. If there were no occurrences during the reporting period, then documentation shall be submitted to indicate such. Any alternative method for monitoring control device performance must be preapproved by the Department and shall be incorporated into the permit as set forth in S.C. Regulation 61-62.1 Section II.
B.14	**Equipment ID:** GEN **Control Device ID:** SCR, OX

B. LIMITATIONS, MONITORING, AND REPORTING

Condition Number	Conditions
	(S.C. Regulation 61-62.1, Section II(E) and II(J)(2)) The owner or operator shall install, operate, and maintain temperature indicators across each catalyst bed during source operation. Temperature readings shall be recorded at least every 15 minutes, and a daily average calculated. The averaging period shall include all readings from 12:00 am one day to 12:00 am the following day. Readings collected when the source is shutdown or not operating may not be used in the calculation. This information shall be maintained on-site. Facilities with automated data collection may submit an alternative monitoring plan, for adjusting the averaging period, to the Department for approval. The owner or operator shall record temperature readings and calculate daily averages as specified in this condition until approval of the alternative monitoring plan is obtained from the Department. Maintenance checks for proper temperature indicator operation shall be made on at least a monthly basis. The checks and any corrective actions shall be documented and kept on-site. The facility shall implement a catalyst management plan to assure that the catalyst activity remains within performance specifications. Catalyst maintenance and replacement shall be implemented in accordance with the plan. The catalyst management plan shall be made available to the Department upon request. The catalysts shall be in place and operational whenever processes controlled by it are running, except during periods of malfunction or mechanical failure. (S.C. Regulation 61-62.1, Section II(E) and II(J)(2)) Operational ranges for the monitored parameters shall be established to ensure proper operation of the pollution control equipment. The owner or operator shall operate each catalyst bed within the established operational range during source operation. These operational ranges for the monitored parameters shall be derived from source test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment. Prior to the first source test, the facility shall use manufacturer's recommendations for operational ranges. The manufacturer's recommendations must be maintained on site. These ranges and supporting documentation (certification from manufacturer, source test results, 30 days of normal readings, opacity readings, etc.) shall be submitted to the Department within 180 days of startup. Operating ranges may be updated following submittal to the Department.
B.15	**Equipment ID:** GEN **Control Device ID:** SCR, OX (S.C. Regulation 61-62.1, Section IV) All emissions points, duct work and other locations that are required to be tested, shall be designed and constructed in a manner to facilitate testing in accordance with applicable EPA approved source testing methods; including, but not be limited to, methods specifying test port location and sizing criteria. For any source test required under an applicable standard or permit condition, the owner, operator, or representative shall comply with S.C. Regulation 61-62.1, Section IV - Source Tests.

B. LIMITATIONS, MONITORING, AND REPORTING

Condition Number	Conditions
	Unless approved otherwise by the Department, the owner, operator, or representative shall ensure that source tests are conducted while the source is operating at the maximum expected production rate or other production rate or operating parameter which would result in the highest emissions for the pollutants being tested. Some sources may have to spike fuels or raw materials to avoid being subjected to a more restrictive feed or process rate. Any source test performed at a production rate less than the rated capacity may result in permit limits on emission rates, including limits on production if necessary. When conducting source tests subject to this section, the owner, operator, or representative shall provide the following: • Department access to the facility to observe source tests; • Sampling ports adequate for test methods; • Safe sampling site(s); • Safe access to sampling site(s); • Utilities for sampling and testing equipment; and • Equipment and supplies necessary for safe testing of a source. The owner or operator shall comply with any limits that result from conducting a source test at less than rated capacity. A copy of the most recent Department issued source test summary letter, whether it imposes a limit or not, shall be maintained with the operating permit, for each source that is required to conduct a source test. Site-specific test plans and amendments, notifications, and source test reports shall be submitted to the Department.
B.16	**Equipment ID:** GEN **Control Device ID:** SCR, OX (S.C. Regulation 61-62.1, Section II(E) and II(J)(2)) An initial source test on each source, or representative source(s) as approved by the Department, to establish the controlled emission factor for formaldehyde shall be conducted within 180 days after startup. The source test will be used to establish the controlled emission factor for formaldehyde in the monthly rolling sums calculations. Subsequent testing shall be conducted every 8760 hours of operation or every 3 years, whichever comes first. Subsequent testing shall reestablish the controlled emission factor for formaldehyde in the monthly rolling sums calculations. The owner or operator shall operate each source within the operating parameters established during the most recent satisfactory source test. A copy of the most recent Department issued source test summary letter(s) that established the operating parameters shall be maintained with this permit.
B.17	**Equipment ID:** TEMPGEN (S.C. Regulation 61-62.1, Section II(E) and II(J)(2)) The owner or operator shall maintain records of

B. LIMITATIONS, MONITORING, AND REPORTING	
Condition Number	**Conditions**
	engine specifications, hour meter records (including associated load), manufacturer's emission factors, and any other records necessary to determine VOC and HAP emissions such as fuel usage. VOC, individual HAP and total HAP emissions shall be calculated monthly, and a twelve-month rolling sum shall be calculated monthly. Facility-wide emission totals must include emissions from exempt activities. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve-month rolling sum shall be less than 100.0 tons for VOC, 10.0 tons for each individual HAP, and 25.0 tons for total HAPs. Reports of the input values, calculated values, and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. The facility shall calculate monthly emissions for each source using the following formulas: $$Monthly\ Formaldehyde\ Emissions\ (ton) = \frac{EF_f * R * H * (1 - D_f)}{C_1 * C_2}$$ $$Total\ Monthly\ VOC\ Emissions\ (ton) = \frac{EF_{voc} * R * H * (1 - D_{voc})}{C_1 * C_2} + \frac{EF_f * R * H * (1 - D_f)}{C_1 * C_2}$$ $$Monthly\ Other\ Single\ HAP\ Emissions\ (ton) = \frac{EF_{HAP} * F * H * (1 - D_{HAP})}{C_2}$$ $$Total\ Monthly\ HAP\ Emissions\ (ton) = \sum^{All\ HAPs} \frac{EF_{HAP} * F * H * (1 - D_{HAP})}{C_2} + \frac{EF_f * R * H * (1 - D_f)}{C_1 * C_2}$$ Where: EF_{voc} = Manufacturer's emission factor for VOC at associated load (g/(bhp-hr)) EF_f = Manufacturer's emission factor for formaldehyde at associated load (g/(bhp-hr)) EF_{HAP} = AP-42 Emission factor for a specific HAP (lb/10^6 Btu) R = brake horsepower rating of engine (bhp) F = fuel consumption of engine (10^6 Btu/hr) H = hours of operation that month (hr) D_{voc} = control device efficiency for VOC (%) D_f = control device efficiency for formaldehyde (%) D_{HAP} = control device efficiency for other HAPs (%) C_1 = conversion factor between g and lb (453.592 g/lb) C_2 = conversion factor between lb and ton (2000 lb/ton)
B.18	**Equipment ID:** TEMPGEN (S.C. Regulation 61-62.1, Section II(E) and II(J)(2)) The owner or operator shall maintain records of engine specifications, hour meter records (including associated load), manufacturer's emission factors, and any other records necessary to determine facility wide NO_x and CO emissions. NO_x and CO emissions shall be calculated on a monthly basis, and a twelve month rolling sum shall be calculated for total NO_x and CO emissions. Facility-wide emission totals must include emissions from

B. LIMITATIONS, MONITORING, AND REPORTING	
Condition Number	**Conditions**
	exempt activities. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve month rolling sum shall be less than 100.0 tons each for NO_x and CO. Reports of the input values, calculated values, and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. The facility shall calculate monthly emissions for each source using the following formulas: $$Monthly\ NO_x\ Emissions\ (ton) = \frac{EF_{nox} * R * H * (1 - D_{nox})}{C_1 * C_2}$$ $$Monthly\ CO\ Emissions\ (ton) = \frac{EF_{co} * R * H * (1 - D_{co})}{C_1 * C_2}$$ Where: EF_{nox} = Manufacturer's emission factor for NO_x at associated load (g/(bhp-hr) EF_{co} = Manufacturer's emission factor for CO at associated load (g/(bhp-hr) R = brake horsepower rating of engine (bhp) H = hours of operation that month (hr) D_{nox} = control device efficiency for NO_x (%) D_{co} = control device efficiency for CO (%) C_1 = conversion factor between g and lb (453.592 g/lb) C_2 = conversion factor between lb and ton (2000 lb/ton)
B.19	**Equipment ID:** TEMPGEN (S.C. Regulation 61-62.1, Section II(J)(2)) This equipment shall not remain on-site for more than 6 months. The owner or operator shall maintain records of when this equipment comes on-site and when it leaves the facility. This information shall be maintained on-site and made available upon the Department's request.
B.20	**Equipment ID:** GEN, TEMPGEN (S.C. Regulation 61-62.1, Section II(J)(2)) The temporary generators (TEMPGEN) shall not be operated when the permanent generators (GEN) are in operation in order to comply with S.C. Regulation 61-62.5, Standard No. 2. The owner or operator must record the operating times of each source daily. Any alternative operating scenario must be approved by the Department and may require a new demonstration of compliance with the above listed standard. A report on the operating times of each source shall be submitted 6 months after the effective date of this permit revision. This is a State Only requirement.
B.21	**Facility Wide** (S.C. Regulation 61-62.1, Section II(J)(2)) All applicable requirements from construction permit CP-50000316 v1.0 have been included in this revised construction permit.

C. NESHAP (40 CFR 61 AND 40 CFR 63)

Condition Number	Conditions
C.1	(40 CFR §63.9(a)(4)(ii) and §63.10(a)(4)(ii)) All NESHAP notifications and reports shall be sent to the Department. Electronic submission of notifications or reports to the United States Environmental Protection Agency (US EPA) via CEDRI (Compliance and Emissions Data Reporting Interface) shall serve as the submission to the Department. CEDRI can be accessed through the EPA's Central Data Exchange (CDX).
C.2	(40 CFR §63.9(a)(4)(ii) and §63.10(a)(4)(ii)) All NESHAP notifications and reports requiring electronic submission to US EPA shall be submitted to EPA via CEDRI. Notifications and reports for specific NESHAP subparts not yet requiring electronic submission may also be submitted via CEDRI. Notifications and the accompanying cover letter for periodic reports not submitted via CEDRI shall be sent to the US EPA Region 4 Air and Radiation Division as required by the applicable subpart.
C.3	**Equipment ID:** GEN **Control Device ID:** SCR, OX (S.C. Regulation 61-62.63; 40 CFR 63) Affected sources: All Stationary IC Engines: This facility is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and NESHAP for Stationary Reciprocating Internal Combustion Engines. Existing affected sources shall comply with the applicable provisions by the compliance date specified in Subpart ZZZZ. Any new affected sources shall comply with the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII for compression ignition engines or 40 CFR 60, Subpart JJJJ for spark ignition engines upon initial start-up unless otherwise noted.

D. GENERAL FACILITY WIDE

Condition Number	Conditions
D.1	The owner or operator shall comply with S.C. Regulation 61-62.6, Control of Fugitive Particulate Matter, Section III Control of Fugitive Particulate Matter Statewide.
D.2	The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees.
D.3	In the event of an emergency, as defined in S.C. Regulation 61-62.1, Section II(L), the owner or operator may document an emergency situation through properly signed, contemporaneous operating logs, and other relevant evidence that verify: 1. An emergency occurred, and the owner or operator can identify the cause(s) of the emergency; 2. The permitted source was at the time the emergency occurred being properly operated; 3. During the period of the emergency, the owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and 4. The owner or operator gave a verbal notification of the emergency to the Department within

D. GENERAL FACILITY WIDE	
Condition Number	**Conditions**
	twenty-four (24) hours of the time when emission limitations were exceeded, followed by a written report within thirty (30) days. The written report shall include, at a minimum, the information required by S.C. Regulation 61-62.1, Section II(J)(1)(c)(i) through (J)(1)(c)(viii). The written report shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This provision is in addition to any emergency or upset provision contained in any applicable requirement.
D.4	(S.C. Regulation 61-62.1, Section II(O)) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following: 1. Enter the facility where emissions-related activity is conducted, or where records must be kept under the conditions of the permit. 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. 3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit. 4. As authorized by the Federal Clean Air Act and/or the S.C. Pollution Control Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
D.5	(S.C. Regulation 61-62.1, Section II(J)(1)(a)) No applicable law, regulation, or standard will be contravened.
D.6	(S.C. Regulation 61-62.1, Section II(J)(1)(e)) Any owner or operator who constructs or operates a source or modification not in accordance with the application submitted pursuant to this regulation or with the terms of any approval to construct, or who commences construction after the effective date of these regulations without applying for and receiving approval hereunder, shall be subject to enforcement action.

E. EMISSIONS INVENTORY REPORTS - RESERVED

F. GENERAL RECORD KEEPING AND REPORTING	
Condition Number	**Conditions**
F.1	(S.C. Regulation 61-62.1, Section II(J)(1)(g)) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment

F. GENERAL RECORD KEEPING AND REPORTING	
Condition Number	**Conditions**
	or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least five (5) years from the date the record was generated and shall be made available to a Department representative upon request.
F.2	The owner or operator shall submit reports required in this permit in a timely manner and according to the reporting schedule established through the Department's approved electronic permitting system.
F.3	All reports and notifications required under this permit shall be submitted to the Department.
F.4	(S.C. Regulation 61-62.1, Section II(A)(3)) The owner or operator shall submit written notification to the Department of the date construction is commenced, postmarked within thirty (30) days after such date.
F.5	(S.C. Regulation 61-62.1, Section II(J)(1)(c)) For sources not required to have continuous emission monitors, any malfunction of air pollution control equipment or system, process upset, or other equipment failure which results in discharges of air contaminants lasting for one (1) hour or more and which are greater than those discharges described for normal operation in the permit application, shall be reported to the Department within twenty-four (24) hours after the beginning of the occurrence and a written report shall be submitted to the Department within thirty (30) days. The written report shall include, at a minimum, the following: 1. The identity of the stack and/or emission point where the excess emissions occurred; 2. The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions; 3. The time and duration of excess emissions; 4. The identity of the equipment causing the excess emissions; 5. The nature and cause of such excess emissions; 6. The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction; 7. The steps taken to limit the excess emissions; and, 8. Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner consistent with good practice for minimizing emissions. The initial twenty-four (24) hour notification should be made to the Department's local Regional Office. The written report should be sent to the Department.

F. GENERAL RECORD KEEPING AND REPORTING	
Condition Number	**Conditions**
F.6	(S.C. Regulation 61-62.1, Section II(J)(2)) Where submittals, requests, or documents are required by this permit or regulation, they shall be submitted through the Department's ePermitting system. Where the term postmarked is used in this permit or regulation, the ePermitting submittal date shall be applied.

G. PERMIT EXPIRATION AND EXTENSION	
Condition Number	**Conditions**
G.1	(S.C. Regulation 61-62.1, Section II(A)(4) and (5) and S.C. Regulation 61-62.1, Section II(J)(1)(f)) Approval to construct shall become invalid if construction: a. Is not commenced within eighteen (18) months after receipt of such approval; b. Is discontinued for a period of eighteen (18) months or more; or c. Is not completed within a reasonable time as deemed by the Department. The Department may extend the construction permit for an additional eighteen (18) month period upon a satisfactory showing that an extension is justified. This request must be made prior to the permit expiration. This provision does not apply to the time period between construction of the approved phases of a phased construction project; each phase must commence construction within eighteen (18) months of the projected and approved commencement date.

H. PERMIT TO OPERATE	
Condition Number	**Conditions**
H.1	(S.C. Regulation 61-62.1, Section II(F)(3)) When a Department issued construction permit includes engineering and/or construction specifications, the owner or operator or professional engineer in charge of the project shall certify that, to the best of his/her knowledge and belief and as a result of periodic observation during construction, the construction under application has been completed in accordance with the specifications agreed upon in the construction permit issued by the Department. If construction is certified as provided above, the owner or operator may operate the source in compliance with the terms and conditions of the construction permit until the operating permit is issued by the Department. If construction is not built as specified in the permit application and associated construction permit(s), the owner or operator must submit to the Department a complete description of modifications that are at variance with the documentation of the construction permitting determination prior to commencing operation. Construction variances that would trigger

H. PERMIT TO OPERATE	
Condition Number	**Conditions**
	additional requirements that have not been addressed prior to start of operation shall be considered construction without a permit.
H.2	(S.C. Regulation 61-62.1, Section II(F)(1)) The owner or operator shall submit written notification to the Department of the actual date of initial startup of each new or altered source, postmarked within fifteen (15) days after such date. Any source that is required to obtain an air quality construction permit issued by the Department must obtain an operating permit when the new or altered source is placed into operation and shall comply with the requirements of this section.
H.3	(S.C. Regulation 61-62.1, Section II(F)(4)(b)) For sources not subject to S.C. Regulation 61-62.70, or not yet covered by an effective Title V operating permit, the owner or operator shall submit a written request to the Department for a new or revised operating permit to cover any new or altered source postmarked within fifteen (15) days after the actual date of initial startup of each new or altered source. (S.C. Regulation 61-62.1, Section II(F)(4)(c)) The written request for a new or revised operating permit must include, at a minimum, the following information: i. A list of sources that were placed into operation; and ii. The actual date of initial startup of each new or altered source.

I. AMBIENT AIR STANDARDS	
Condition Number	**Conditions**
I.1	Air dispersion modeling (or other method) has previously demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in this demonstration may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded. The owner or operator shall maintain this facility at or below the emission rates used in the most recent air dispersion modeling (or other method) demonstration submitted to and approved by the Department, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates used in the demonstration, not to exceed the pollutant limitations in the body of this permit, it may do so by submitting a new demonstration for approval. This condition along with the referenced modeling demonstration will also serve to meet the intent of S.C. Regulation 61-62.5,

I. AMBIENT AIR STANDARDS	
Condition Number	**Conditions**
	Standard No. 8, Section II(D). This is a State Only enforceable requirement.