SC DEPARTMENT of ENVIRONMENTAL SERVICES

Bureau of Air Quality
Prevention of Significant Deterioration
Final Determination

Dominion Energy South Carolina, Inc. Canadys Station
13139 Augusta Highway
Walterboro, SC 29488
Walterboro, South Carolina
Colleton County

Permit Number PSD-50000027
Agency Air Number: 0740-0002
November 20, 2026

This review was performed by the Bureau of Air Quality of the South Carolina Department of Environmental Services in accordance with South Carolina Regulations for the Prevention of Significant Air Quality Deterioration.

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1.0 Timeline (Permitting Action History)

3/12/2026	A Prevention of Significant Deterioration (PSD) pre-application meeting was held with representatives from Dominion Energy South Carolina Inc Canadys Station, Tora Consulting, LLC and ALL4 Company, and the South Carolina Department of Environmental Services (SCDES), Bureau of Air Quality (BAQ).
4/24/2026	SCDES received a PSD permit application from Dominion Energy South Carolina Inc Canadys Station.
5/12/2026	Air Permitting of the BAQ submitted a copy of the application to the U.S. Environmental Protection Agency (EPA) via the EPA's Electronic Permit System.
7/10/2026	SCDES received an updated PSD permit application from Canadys.
7/22/2026	Air Permitting of BAQ emailed a letter to representatives of the U.S. EPA, Fish and Wildlife, National Park Service, and Department of Agriculture, informing them that the BAQ had deemed the application complete.
9/18/2026	The BAQ placed the PSD Preliminary Determination and PSD Construction Permit No. PSD-50000027 v1.0 on public notice for a forty-(40) day comment period. All appropriate Federal and State Officials were notified.
10/20/2026	The BAQ held a public meeting to answer questions from the public and a public hearing, to receive oral and written comments on the proposed project.
11/20/2026	The BAQ issued a Final Determination and Construction Permit No. PSD-50000027.

2.0 Introduction and Preliminary Determination

2.1 Project Overview

Due to emissions increases associated with this proposal, the project is subject to S.C. Regulation 61-62.5, Standard No. 7, "Prevention of Significant Deterioration (PSD)." This regulation is equivalent to the Federal Prevention of Significant Deterioration of Air Quality regulations in Title 40 Code of Federal Regulations (CFR) Section 52.21. Pursuant to these regulations, new major stationary sources and modifications to major stationary sources of air pollution must demonstrate that they will not significantly deteriorate the air quality in their region. The facility has potential emissions for the pollutants listed in Table 1 below, which exceed the significance levels allowed in this regulation. The PSD review was conducted for each of these pollutants and includes a Best Available Control Technology (BACT) determinations and Ambient Air Impact Analyses.

As shown in Table 1, this project exceeds the significant threshold as defined under PSD for each pollutant listed as "Yes" for a significant increase.

Table 1 - PSD Applicability Analysis

Pollutant	Controlled Emissions Increase	PSD Significant Threshold	Significant Increase?
	TPY	TPY	
PM	617	25	Yes
PM_{10}	615	15	Yes
$PM_{2.5}$	613	10	Yes
SO_2	119	40	Yes
NO_X	731	40	Yes
CO	2,780	100	Yes
VOC	972	40	Yes
Sulfuric Acid Mist	197	7	Yes
Lead	0.08	0.6	No
GHG	7,890,000	75,000	Yes
Fluorides	---	3.0	No

2.2 Detailed Process Description

This project is for the construction 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 (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. Each CCCT will be equipped with selective catalytic reduction (SCR) for the control of nitrogen oxides (NO_x) and an oxidative catalyst (OXCAT) for the control of carbon monoxide (CO), volatile organic compounds (VOC) and organic hazardous air pollutants (HAPs). Water injection will also be available for control of NO_x when using fuel oil in the combustion turbines.

Ancillary equipment will include: one (1) natural gas-fired auxiliary boiler (ABO), 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, three (3) 4000-gallon diesel belly tanks, two (2) 300-gallon diesel belly tanks, two (2) 40,000-gallon ASTs storing less than 20% aqueous ammonia to support the SCR system, six (6) inlet chiller towers, three (3) delugable air-cooled heat exchangers, and fugitive emission components (valves, flanges, etc.).

2.3 Regulatory Applicability

The project results in potential emissions that exceed the PSD significant thresholds. By virtue of the proposed increase, this project is subject to review under the following standards in S.C. Regulation 61-62 and Federal standards:

- S.C. Regulation 61-62.5, Standard No. 1, *Emissions from Fuel Burning Operations*
- S.C. Regulation 61-62.5, Standard No. 2, *Ambient Air Quality Standards*
- S.C. Regulation 61-62.5, Standard No. 4, *Emissions from Process Industries*
- S.C. Regulation 61-62.5, Standard No. 7, *Prevention of Significant Deterioration*
- S.C. Regulation 61-62.6, *Control of Fugitive Particulate Matter*
- S.C. Regulation 61-62.7, *Good Engineering Practice Stack Height*
- S.C. Regulation 61-62.60, *South Carolina Designated Facility Plan and New Source Performance Standards*
- S.C. Regulation 61-62.60 and 40 CFR 60, *Standards of Performance of New Stationary Sources*, Subpart Dc, *Standards of Performance for Small Industrial Commercial - Institutional Steam Generating Units*
- S.C. Regulation 61-62.60 and 40 CFR 60, *Standards of Performance of New Stationary Sources*, Subpart IIII, *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*
- S.C. Regulation 61-62.60 and 40 CFR 60, *Standards of Performance of New Stationary Sources*, Subpart KKKKa, *Standards of Performance for Stationary Combustion Turbines*
- S.C. Regulation 61-62.60 and 40 CFR 60, *Standards of Performance of New Stationary Sources*, Subpart TTTTa, *Standards of Performance for Greenhouse Gas Emissions for Modified Coal-Fired Steam Electric Generating Units and New Construction and Reconstruction Stationary Combustion Turbine Electric Generating Units*
- S.C. Regulation 61-62.63 and 40 CFR 63, *National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories*, Subpart YYYY, *National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines*
- 40 CFR 63, *National Emission Standards For Hazardous Air Pollutants For Source Categories*, Subpart ZZZZ, *National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines*

- 40 CFR 63, *National Emission Standards For Hazardous Air Pollutants For Source Categories*, Subpart DDDDD, *National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters*
- S.C. Regulation 61-62.70, *Title V Operating Permit Program*
- S.C. Regulation 61-62.72 and 40 CFR 72, 73, 74, 75, and 76, *Acid Rain*
- S.C. Regulation 61-62.96 and 40 CFR 96 *Nitrogen Oxides (NO_X) Budget Program*
- S.C. Regulation 61-62.97 and 40 CFR 97 *Cross-State Air Pollution Rule*

3.0 Following the Comment Period

3.1 Response to Comments

Written comments and oral comments were received during the comment period. The Department has reviewed and considered each comment received. A summary of the comments received and the Department responses to those comments are in the Response to Comments on Air Quality, which is included as part of this Final Determination.

4.0 Final Determination

On September 18, 2026, the Department made a preliminary determination that Dominion Energy South Carolina, Inc. Canadys Station may install to construct three (3) independent, advanced-class, multi-shaft, one-on-one (1x1) combined cycle combustion turbine (CCCT) power trains, if the emission limitations and conditions as outlined in the draft PSD Construction Permit PSD-50000027 v1.0 are met. This draft construction permit was included as part of the Preliminary Determination. The Statement of Basis that contains explanations of the permitting actions was also included as a part of the Preliminary Determination. The public comment period closed on October 27, 2026.

Written and oral comments were received. Changes to the draft permit and statement of basis and the Department's responses are listed in listed Section 3.0.

The Department has made a final determination that the Dominion Energy South Carolina, Inc. Canadys Station proposed project may be approved provided that the emission limitations and conditions as outlined in Construction Permit No. PSD-50000027 v1.0 are met. A copy of the final issued construction permit is included as part of this Final Determination.

The final BACT determinations are summarized in the Table 2.

Table 2 - Summary of BACT

Process	Pollutant	BACT Control Method	BACT Limit
CCCTs / Natural Gas	CO	Catalytic Oxidation, Good Combustion Practices	3.5 ppmvd at 15% O_2 based on a 4-hour rolling average
CCCTs / Fuel Oil	CO	Catalytic Oxidation, Good Combustion Practices	5 ppmvd at 15% O_2 based on a 4-hour rolling average
CCCTs / SU/SD	CO	Limiting hours for SU/SD events	2,745.41 tons on a rolling 12-month basis, and 2,928.50 hours per rolling 12-month period, pooled across all three (3) of the CCCT power trains
Aux Boiler	CO	Good Combustion Practices, Limited Operation	---
Fuel Heaters	CO	Good Combustion Practices	---
Emergency Engines	CO	Compliance with NSPS IIII	---
CCCTs / Natural Gas	NO_x	SCR, DLN, clean fuels, good	2 ppmv @ 15% O_2

Table 2 - Summary of BACT			
Process	**Pollutant**	**BACT Control Method**	**BACT Limit**
		Combustion practices	
CCCTs / Fuel Oil	NO_x	SCR, DLN, CTG water injection, clean fuels, good combustion practices, Limited Fuel Oil Usage	5 ppmv @ 15% O_2
CCCTs / SU/SD and	NO_x	Limit hours of SU/SD	96 ppmv @ 15% O_2
Auxiliary Boiler	NO_x	Limited operation, Clean Fuels, Low-NOx Burners	---
Fuel Heaters	NO_x	Good Combustion Practices, Clean Fuels	---
CCCTS / Natural Gas	VOC	Catalytic Oxidation, Good Combustion Practices	2 ppmvd at 15% O_2
CCCTs / Fuel Oil	VOC	Catalytic Oxidation, Good Combustion Practices	2 ppmvd at 15% O_2
CCCTs / SU/SD	VOC	Limiting hours for SU/SD events	967.98 tons on a rolling 12-month basis, 2,928.50 hours per rolling 12-month period, pooled across all three (3) of the CCCT power trains
Aux Boiler	VOC	Good Combustion Practices, Limited Operation	---
Fuel Heaters	VOC	Good Combustion Practices	---
Emergency Engines	VOC	Compliance with NSPS IIII	---
Fuel Tanks	VOC	Submerged Fuel Loading	---
Fugitive Piping Components	VOC	Weekly AVO Program Inspections	---
CCCTs / Natural Gas Combustion	PM, PM_{10}, $PM_{2.5}$	low ash/low sulfur fuels, inlet air filtration, and good combustion practices	$\leq$0.009 lb/Million Btu
CCCTs / Fuel Oil	PM, PM_{10}, $PM_{2.5}$	low ash/low sulfur	$\leq$0.027 lb/Million Btu

Table 2 - Summary of BACT			
Process	**Pollutant**	**BACT Control Method**	**BACT Limit**
Combustion		fuels, inlet air filtration, and good combustion practices	
Auxiliary Boiler and Fuel Heaters	PM, PM_{10}, $PM_{2.5}$	natural gas with a sulfur content ≤0.5 gr/scf	---
Auxiliary Boiler	PM, PM_{10}, $PM_{2.5}$	10% capacity factor and a 2,000 hours/year operational limit (excludes CCCT commissioning)	---
Emergency Engines	PM, PM_{10}, $PM_{2.5}$	Compliance with NSPS IIII, Limited hours of operation, Use of ULSD as fuel	---
Inlet Cooling Towers	PM, PM_{10}, $PM_{2.5}$	HEDES and proper design, operation, and maintenance	---
Delugable Air-Cooled Heat Exchangers	PM, PM_{10}, $PM_{2.5}$	Drift Eliminator and proper design, operation, and maintenance	---
CCCTs using natural gas	SO_2 and Sulfuric Acid Mist	Natural Gas Sulfur Content	≤0.5 gr/100 scf on a 12-month rolling average
CCCTs using fuel oil	SO_2 and Sulfuric Acid Mist	Fuel Oil Sulfur Content	≤15 ppmw on a 12-month rolling average
Auxiliary Boiler and Fuel Heaters	SO_2 and Sulfuric Acid Mist	Natural Gas Sulfur Content	≤0.5 gr/100 scf on a 12-month rolling average
Auxiliary Boiler	SO_2 and Sulfuric Acid Mist	Limited Operation	10% capacity factor and a 2,000 hours/year operational limit (excludes CCCT commissioning)
Emergency Engines	SO_2 and Sulfuric Acid Mist	Diesel Fuel Sulfur Content	≤15 ppmw on a 12-month rolling average
CCCTs	GHG	Low carbon fuels, Energy Efficiency	2,610,340 tons (as CO_2) /12-month period and any applicable limit under 40 CFR 60 Subpart TTTTa
Aux Boiler	GHG	Good Combustion Practices, low carbon fuel, and limited	---

Table 2 - Summary of BACT			
Process	**Pollutant**	**BACT Control Method**	**BACT Limit**
		operation	
Fuel Heaters	GHG	Good Combustion Practices and low carbon fuel	---
Emergency Engines	GHG	Compliance with NSPS IIII and limited operation	---
SF6 Circuit Breakers	GHG	Leak Detection Alarms	---
Fugitive Piping Components	GHG	Weekly AVO Inspections and LDAR Program	---