



AIR AND RADIATION ADMINISTRATION DRAFT PART 70 OPERATING PERMIT

DOCKET #24-031-2716

COMPANY: Dickerson Power, LLC

LOCATION: 21230 Martinsburg Rd
Dickerson, Maryland, 20842

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**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
AIR QUALITY PERMITS PROGRAM
TITLE V – PART 70 OPERATING PERMIT PROGRAM OVERVIEW**

Title V of the Clean Air Act (amended) requires each state to implement a federally enforceable operating permit program for major sources of air pollution. This program, the Part 70 Permit Program, also known as the Title V Permit Program, is designed to provide a comprehensive administrative document (a Part 70 Operating Permit) that identifies all air emissions sources at a given facility and the federal air quality regulations applicable to those sources. The permit establishes the methodology by which the owner/operator will demonstrate compliance, and includes testing, monitoring, record-keeping, and reporting requirements for each emissions source.

A Part 70 Operating Permit does not authorize new construction, and does not add any new emissions limitations, standards, or work practices on an affected facility. There may, however, be additional testing, record keeping, monitoring, and reporting requirements. A Part 70 Operating Permit is a five-year renewable permit. A responsible official for each facility subject to a Part 70 Operating Permit is required to annually certify compliance with each applicable requirement for that facility.

When an application for a Part 70 Operating Permit is received, the Department will complete a technical review of the application and will prepare a draft Part 70 Operating Permit and Fact Sheet. The Fact Sheet will explain the basis and technical analysis used by the Department to develop the federally enforceable permit conditions, including the required testing, monitoring, record keeping, and reporting provisions for each emissions unit at the permitted facility. The Fact Sheet will also include a description of the facility operations and the current compliance status with applicable requirements. If there are any discrepancies between the Part 70 Operating Permit application and the draft permit, the Fact Sheet will contain a discussion of the inconsistencies and the final resolution.

Public Participation Process

The Part 70 Operating Permit Program provides the public, adjacent states, and EPA the opportunity to review and submit comments on draft permits. The public may also request a public hearing on the draft permit.

The purpose of a public hearing is to give interested parties the opportunity to submit comments for the record which are germane to the draft federally enforceable permit conditions. Comments made at the hearing, or in writing to the Department during the comment period, should address errors and deficiencies in the permit such as unidentified emissions units, incorrect or deficient regulation citation, deficient record keeping, monitoring, reporting or testing requirements and unresolved compliance issues. After the public comment period has closed, the Department will review the formal testimony as part of the final review and prepare a Response to Comments document which will be sent to the EPA along with the draft Part 70 Operating Permit and Fact Sheet.

Testimony on state-only requirements will be kept on file at the Department as part of the formal record, however, state-only rules and regulations are not federally enforceable, and therefore are not within the scope of the EPA review. The Department will keep a record of the identity of the commenters, their statements, a summary of the issues raised during the public comment period, and the Response to Comments document for at least five years.

Citizen Petition to EPA to Object to Permit Issuance

Interested parties may petition the EPA to object to the Part 70 Permit if the EPA has not already objected, within 60 days after the 45-day EPA review period has ended. The petition period will be posted on the EPA website. The EPA will only consider objections to the federally enforceable provisions of the draft permit which were raised with reasonable specificity during the public comment period, unless: (1) the petitioner demonstrates that it was impractical to raise the objections within the public comment period, or (2) the grounds for the objection arose after the comment period. If the EPA agrees with the petition, the Department will reopen, revise, or revoke the permit as determined.

Applicant Objection to Permit Issuance and Recourse

If the applicant objects to the federally enforceable permit conditions contained in the issued Part 70 Operating permit, the applicant has 15 days from receipt of the issued permit to request a contested case hearing. More information on that can be found in 40 CFR, Part 70, and COMAR 26.11.03.11.

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**NOTICE OF INTENT TO ISSUE PART 70 OPERATING PERMIT, OPPORTUNITY TO SUBMIT WRITTEN
COMMENTS OR TO REQUEST A PUBLIC HEARING**

The Department of the Environment, Air and Radiation Administration (ARA) has completed its review of the application for a renewal Part 70 Operating Permit submitted by Dickerson Power, LLC, Dickerson Generating Station. The facility includes two (2) peaking service combustion turbines primarily firing natural gas located on site at Station H. The two (2) combustion turbines are used for peaking capacity, rated at 167 megawatts and fires primarily natural gas and No. 2 fuel oil as secondary fuel.

The applicant is represented by:

Mr. Jerry Simpson, Plant Manager
Dickerson Power, LLC.
21230 Martinsburg Road
Dickerson, MD 20842

The Department has prepared a draft Part 70 Operating Permit for review and is now ready to receive public comment. A docket containing the application, draft permit, and supporting documentation is available for review on the Department's website, under the Air Quality Permitting Page's Title V link under "Draft Title V Permits" and may be viewed here:

<https://tinyurl.com/DraftTitleV>

Interested persons may submit written comments or request a public hearing on the draft permit. Written comments must be received by the Department no later than 30 days from the date of this notice. Requests for a public hearing must be submitted in writing and must also be received by the Department no later than 30 days from the date of this notice.

Comments and requests for a public hearing will be accepted by the Department if they raise issues of law or material fact regarding applicable requirements of Title V of the Clean Air Act, and/or regulations implementing the Title V Program in Maryland found in COMAR.

A Request for public hearing shall include the following:

- 1) The name, mailing address, and telephone number of the person making the request;
- 2) The names and addresses of any other persons for whom the person making the request is representing; and
- 3) The reason why a hearing is requested, including the air quality concern that forms the basis for the request and how this concern relates to the person making the request.

All written comments and requests for a public hearing should be directed to the attention of Ms. Shannon Heafey via email at Shannon.heafey@maryland.gov or by post at Air Quality Permits Program, Air and Radiation Administration, 1800 Washington Boulevard Suite 720, Baltimore, Maryland 21230-1720. Further information may be obtained by calling Ms. Shannon Heafey at (410) 537-4433.

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BACKGROUND

The Dickerson Generating Station is engaged in the generation of electric energy for sale. The company was formerly part of a larger facility owned by GenOn Mid Atlantic, LLC. The primary SIC code for this facility is 4911. The major components of the facility are two (2) peaking service combustion turbines primarily firing natural gas located on site at Station H. The two (2) combustion turbines manufactured by General Electric are used for peaking capacity. Each is rated at 167 megawatts and fires primarily natural gas and No. 2 fuel oil as secondary fuel. Each combustion turbine exhausts through a 130-foot stack. The stack height at the facility was incorrectly represented as 218 feet in previous applications and permits.

GenOn Mid Atlantic, LLC submitted to the Department a modification to the renewal application dated May 22, 2020, for the retirement of the coal units **[D-1 through D-3]**, three (3) coal fired boilers (ARA Registration Nos. 3-0001 through 3-0003) in August 2020. Because of the removal of the coal units, the facility was issued an initial Title V operating permit with the name Dickerson Power, LLC for the combustion turbines only. The purpose of the separation was to prepare one or both entities for a potential future sale.

Dickerson Power notified the Department on December 22, 2023 of the permanent retirement of the single black start combustion turbine **[EU DCT-1]**, manufactured by Pratt & Whitney. The No. 2 oil fired combustion turbine rated at 18 megawatts was used both for black start capability and peaking service. This Title V Renewal does not include **EU DCT-1**.

The following table summarizes the actual emissions from Dickerson Generating Station based on its Annual Emission Certification Reports:

Table 1: Actual Emissions

Year	NO_x (TPY)	SO_x (TPY)	PM₁₀/PM_{2.5} (TPY)	CO (TPY)	VOC (TPY)	Total HAP (TPY)
2024	84.24	1.03	6.21	80.93	2.20	0.66
2023	167.00	1.46	3.37	149.89	3.95	1.36
2022	68.55	3.27	1.37	53.25	1.50	0.57
2021	112.17	1.44	2.00	89.91	2.47	0.86
2020	274.45	129.0	3.49	56.5	4.13	1.89

The major source threshold for triggering Title V permitting requirements in Montgomery County is 25 tons per year for VOC and NO_x, 100 tons per year for

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any other criteria pollutants and 10 tons for a single HAP or 25 tons per year for total HAPs. Since the actual NO_x emissions from the facility are greater than the major source threshold, Dickerson Generating Station is required to obtain a Title V – Part 70 Operating Permit under COMAR 26.11.03.01.

The Department, on October 17, 2025 received the Dickerson Generating Station's Part 70 permit to operate renewal application, which was submitted by Dickerson Power, LLC. An administrative completeness review was conducted, and the application was deemed complete. A completeness letter was sent to Dickerson Power, LLC on November 7, 2025 granting Dickerson Generating Station an application shield.

NSPS

Dickerson Generating Station is subject to NSPS (40 CFR Part 60), **Subpart GG**—Standards of Performance for Stationary Gas Turbines (**HCT-1 & HCT-2**).

Dickerson Generating Station is subject to the NO_x Reasonably Available Control Technology (RACT) requirements and Acid Rain Program. A Certificate of Public Convenience and Necessity (CPCN) #8063 was issued for Combustion turbines (**HCT-1 & HCT-2**).

CROSS-STATE AIR POLLUTION RULE (CSAPR)

The U.S. Environmental Protection Agency (EPA) issued the Cross-State Air Pollution Rule (CSAPR) in July 2011 to address Clean Air Act requirements concerning interstate transport of air pollution and to replace the previous Clean Air Interstate Rule (CAIR) which the D.C. Circuit remanded to the EPA for replacement. Following the original rulemaking, CSAPR was amended by three further rules known as the Supplemental Rule, the First Revisions Rule, and the Second Revisions Rule. As amended, CSAPR requires 28 states to limit their state-wide emissions of sulfur dioxide (SO₂) and/or nitrogen oxides (NO_x) in order to reduce or eliminate the states' contributions to fine particulate matter and/or ground-level ozone pollution in other states. The emissions limitations are defined in terms of maximum state-wide “budgets” for emissions of annual SO₂, annual NO_x, and/or ozone season NO_x by each state's large electricity generating units (EGUs). The emissions budgets are implemented in two phases of generally increasing stringency. As the mechanism for achieving compliance with the emissions limitations, CSAPR establishes federal implementation plans (FIPs) that require large EGUs in each affected state to participate in one or more new emission trading programs that supersede the existing CAIR emissions trading programs. On December 30, 2011, in response to petitions challenging CSAPR, the D.C. Circuit granted a stay of the rule, ordering the EPA to continue administering CAIR on an interim basis. In a subsequent decision, the Court vacated CSAPR but on April 29, 2014, the U.S. Supreme Court reversed that decision and remanded the case to the D.C. Circuit Court for

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further proceedings. In order to allow CSAPR to replace CAIR in an orderly manner, EPA filed a motion asking the D.C. Circuit to lift the stay and to toll, by three years, all CSAPR compliance deadlines that had not yet passed. On October 23, 2014, the Court granted the EPA's motion.

Consistent with the Court's order, compliance with CSAPR's Phase 1 emissions budgets was required in 2015 and 2016 and compliance with the rule's Phase 2 emissions budgets and assurance provisions is required from 2017 and beyond.

On September 7, 2016, EPA finalized the CSAPR Update, which further reduced NO_x emissions from EGUs in 22 states during the ozone season, May 1 through September 30, thereby reducing pollution transport and helping downwind states achieve and maintain the 2008 ozone standard (75 ppb). On October 26, 2016, CSAPR Update was published in the federal register, with an effective date of December 27, 2016.

On March 15, 2021, EPA finalized the Revised Cross-State Air Pollution Rule Update for the 2008 ozone National Ambient Air Quality Standards (NAAQS). Starting in the 2021 ozone season, the rule will require additional emissions reductions of nitrogen oxides (NO_x) from power plants in 12 states, improving air quality for millions of Americans. The final rule was published in the Federal Register on April 30, 2021, with an effective date of June 29, 2021.

On June 27, 2024 the US Supreme Court granted emergency applications seeking a stay of the CSAPR/Good Neighbor Plan pending judicial review. In accordance with the interim final rule effective November 6, 2024, sources located in states that were subject to the Group 3 Trading program regulations are now subject to the Group 2 Trading Program regulations to ensure continued implementation of previously established requirements to mitigate interstate air pollution with respect to other ozone NAAQS while the effectiveness of the Good Neighbor Plan's requirement is stayed.

This renewal Part 70 permit identifies the applicable regulations of the CSAPR rule as found in 40 CFR Part 97 subpart AAAAA- NO_x Annual Trading Program, subpart GGGGG- CSAPR NO_x Ozone Season Group 3 Trading Program, subpart EEEEE- CSAPR NO_x Ozone Season Group 2 Trading Program, and subpart CCCCC SO₂ Group 1 Trading Program.

REGIONAL GREENHOUSE GAS INITIATIVE

The Regional Greenhouse Gas Initiative (RGGI) is a market-based carbon dioxide (CO₂) cap and trade program designed to reduce CO₂ emissions from fossil fuel-fired power plants. It is a Maryland State-only enforceable program. The Healthy Air Act required Maryland to join RGGI by July 2007. Maryland

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joined RGGI by signing RGGI's multi-state Memorandum of Understanding (MOU) on April 20, 2007. The MOU requires Maryland to adopt regulations by December 31, 2008, implementing the RGGI program. The Maryland CO₂ Budget Trading Program, Code of Maryland Regulations (COMAR) 26.09.01 to .03, became effective on July 17, 2008. COMAR 26.09.04 became effective as an emergency action on April 4, 2008, and as a permanent action on August 25, 2008.

The regulations require the following:

- 1) Implement a cap-and-trade program for CO₂ emissions from fossil fuel-fired electric generating units located in Maryland having a capacity of at least 25 megawatts;
- 2) Distribute CO₂ allowances to stakeholders through auction, sale and/or allocation;
- 3) Require each affected source to have a CO₂ budget account representative and a compliance account;
- 4) Require each budget unit to hold in its source's compliance account at the end of each 3-year control period one allowance for each ton of CO₂ emissions emitted in that period;
- 5) Require sources to monitor emissions and submit quarterly and annual emission reports;
- 6) Establish set-aside accounts for voluntary renewable purchase, limited industrial generator exemptions, and long-term contract generators;
- 7) Establish a consumer benefit or strategic energy purpose fund to support energy efficiency, directly mitigate electricity ratepayer impacts, promote renewable or non-carbon emitting energy technologies, stimulate or reward investment in the development of innovative carbon emissions abatement technologies with significant carbon reduction potential, and fund administration of the program; and
- 8) Establish procedures to evaluate and award allowances to persons who undertake offset projects that will reduce CO₂ emissions.
- 9) Require affected sources to submit an application for a CO₂ Budget Permit. A CO₂ Budget Permit when issued will be an attachment to the Part 70 permit.

GREENHOUSE GAS (GHG) EMISSIONS

Dickerson Generating Station emits the following greenhouse gases (GHGs) related to Clean Air Act requirements: carbon dioxide, methane, and nitrous oxide. These GHGs originate from various processes (combustion turbines) contained within the facility premises applicable to Dickerson Generating Station. The facility has not triggered Prevention of Significant Deterioration (PSD) requirements for GHG emissions; therefore, there are no applicable GHG Clean Air Act requirements. While there may be no applicable requirements as a result of PSD, emission certifications report for the years 2024, 2023, 2022 and 2021,

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showed that Dickerson Generating Station is a major source (threshold: 100,000tpy CO_{2e}) for GHG's (see Table 2 shown below). The Permittee shall quantify facility wide GHGs emissions and report them in accordance with Section 3 of the Part 70 permit. The following table summarizes the actual emissions from Dickerson Generating Station based on its Annual Emission Certification Reports:

Table 2: Greenhouse Gases Emissions Summary

GHG	Conversion factor	2021 tpy CO _{2e}	2022 tpy CO _{2e}	2023 tpy CO _{2e}	2024 tpy CO _{2e}
Carbon dioxide CO ₂	1	139,491.38	85,095.65	218,302.21	110,457.0
Methane CH ₄	25	66.5	46	102.5	52.25
Nitrous Oxide N ₂ O	298	83.44	68.54	122.18	65.56
Total GHG CO_{2eq}		139,641.32	85,211.19	218,526.88	110,574.81

EMISSION UNIT IDENTIFICATION

Dickerson Generating Station has identified the following emission units as being subject to Title V permitting requirements and having applicable requirements:

Table 3: Emission Unit Identification

Emissions Unit Number	MDE - ARA Registration Number	Emissions Unit Name and Description	Date of Installation
HCT-1 (CAMD ID: GT2)	9-0362	Unit HCT-1 is a General Electric Frame 7F combustion turbine that fires primarily natural gas and No. 2 fuel oil as a secondary fuel. The combustion turbine has a rated capacity of 167 megawatts. The combustion turbine is equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NO _x emissions. The exhaust is directed to a single 130-foot-high stack.	June 1992
HCT-2 (CAMD ID: GT3)	9-0363	Unit HCT-2 is a General Electric Frame 7F combustion turbine that fires primarily natural gas and No. 2 fuel oil as a	June 1993

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Emissions Unit Number	MDE - ARA Registration Number	Emissions Unit Name and Description	Date of Installation
		secondary fuel. The combustion turbine has a rated capacity of 167 megawatts. The combustion turbine is equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NO _x emissions. The exhaust is directed to a single 130-foot-high stack.	

AN OVERVIEW OF THE PART 70 PERMIT

The Fact Sheet is an informational document. If there are any discrepancies between the Fact Sheet and the Part 70 permit, the Part 70 permit is the enforceable document.

Section I of the Part 70 Permit contains a brief description of the facility and an inventory list of the emissions units for which applicable requirements are identified in Section IV of the permit.

Section II of the Part 70 Permit contains the general requirements that relate to administrative permit actions. This section includes the procedures for renewing, amending, reopening, and transferring permits, the relationship to permits to construct and approvals, and the general duty to provide information and to comply with all applicable requirements.

Section III of the Part 70 Permit contains the general requirements for testing, record keeping and reporting; and requirements that affect the facility as a whole, such as open burning, air pollution episodes, particulate matter from construction and demolition activities, asbestos provisions, ozone depleting substance provisions, general conformity, and acid rain permit. This section includes the requirement to report excess emissions and deviations, to submit an annual emissions certification report and an annual compliance certification report, and results of sampling and testing.

Section IV of the Part 70 Permit identifies the emissions standards, emissions limitations, operational limitations, and work practices applicable to each emissions unit located at the facility. For each standard, limitation, and work practice, the permit identifies the basis upon which the Permittee will demonstrate compliance. The basis will include testing, monitoring, record

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keeping, and reporting requirements. The demonstration may include one or more of these methods.

Section V of the Part 70 Permit contains a list of insignificant activities. These activities emit very small quantities of regulated air pollutants and do not require a permit to construct or registration with the Department. For insignificant activities that are subject to a requirement under the Clean Air Act, the requirement is listed under the activity.

Section VI of the Part 70 Permit contains State-only enforceable requirements. Upon issuance of the Part 70 Permit, the Part 70 permit supersedes the facility's current State Permit to Operate. Section VI identifies requirements that are not based on the Clean Air Act, but solely on Maryland air pollution regulations. These requirements generally relate to the prevention of nuisances and implementation of Maryland's Air Toxics Program.

**REGULATORY REVIEW/TECHNICAL REVIEW/COMPLIANCE
METHODOLOGY**

Emissions Unit Number(s): HCT-1: (CAMD ID-GT2) & HCT-2: (CAMD ID-GT3): Combustion Turbines

HCT-1 & HCT-2: Two (2) General Electric Frame 7F combustion turbines each with a nominal rated capacity of 167 megawatts located at Station H. These combustion turbines fire primarily natural gas and No. 2 fuel oil as a secondary fuel. The units are equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NO_x emissions. **[9-0362 & 9-0363]**

These turbines were installed in 1992 and 1993 respectively. The units received a Certificate of Public Convenience (CPCN) Order No. 68851 **Case #8063** issued July 2, 1990, which sets limits for annual emissions of carbon monoxide, PM₁₀, total particulates, VOC, NO_x and SO₂ expressed in tons. The project triggered a Prevention of Significant Deterioration (PSD) approval because the projected annual emissions of from the proposed project exceeded the major modification thresholds for NO_x, CO, PM, and SO₂. The application for the project was received prior to November 15, 1990, so the project did not trigger major new source review (NSR) for non-attainment for NO_x.

The original proposal for Station H was a plant to be built in stages. Element I of the project was the construction of four simple cycle combustion turbines. Element II of the project called for the addition of two heat recovery steam generators, one for each pair of combustion turbines. In addition, there was to

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be the addition of a small auxiliary boiler. Most of the project did not materialize. Only two simple cycle combustion turbines were ever constructed. The conditions in the CPCN that was issued for Station H that refer to Element II including the auxiliary boiler are null and obsolete. Only two of the four combustion turbines (HCT1 and HCT2) initially proposed as Element I are part of this Title V permit.

The BACT determination for NO_x for the project was to install water injection in the turbines to achieve a 42 ppm at 15% O₂ when firing natural gas and the following limits when firing No. 2 fuel oil:

for 57 $N \leq 0.015$

and

$57 + 400N$ for $N > 0.015$

where N is the nitrogen content of the fuel in percent by weight.

The BACT determination for SO₂ for the project was a restriction limiting the sulfur content in the No. 2 fuel oil burned in the combustion turbines and auxiliary boiler to not more than 0.3% by weight.

The combustion turbines operate during peak electricity demand and therefore have low-capacity factors. The combustion turbines are also subject to the requirements of 40 CFR 60 Subpart GG.

The facility is not a major source of HAPs. The CTs are not subject to the requirements of 40 CFR Part 63, Subpart YYYY—National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines since they were constructed prior to March 5, 2004.

Compliance Status

A NO_x stack test was conducted on **HCT-1** on January 28-29, 2025. The tests were conducted using EPA Method 7E. Testing was done at 4 specified loads conditions for each fuel (oil and gas) to determine the NO_x emissions of HCT-1. Results at the highest loads are as follows: on gas 35.72 ppm (0.114 lbs./MMBtu) and on oil: 61.31 ppm (0.199 lbs./MMBtu). As required in 40 CFR 75.19, a new fuel and unit specific NO_x emission rate is required every 5 years.

A NO_x stack test was conducted on **HCT-2** on July 27 through August 10, 2021. The tests were conducted using EPA Method 7E. Testing was done at 4 specified loads conditions for each fuel (oil and gas) to determine the NO_x emissions of HCT-2. Results at the highest loads are as follows: on gas 24.82 ppm (0.069 lbs./MMBtu) and on oil: 40.1 ppm (0.121 lbs./MMBtu). As required in 40 CFR 75.19, a new fuel and unit specific NO_x emission rate is required every 5 years.

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2025 capacity factors for the CTs are as follows:

HCT-1 = operated 1,103 hours; HCT-2 = operated 1,096 hours. Capacity factors for both units were less than 9%.

Method 9 was conducted on both units on March 27, 2025. No visible emissions were observed.

According to the 2025 Annual Compliance Certification the company asserts that all emissions units were in continuous compliance with requirements.

2024 Emissions Certification Report:

Tons/yr.	NO_x	SO_x	CO	PM₁₀/PM_{2.5}	VOC
HCT-1	91.2	1.14	49.71	5.04	1.19
HCT-2	49.81	1.03	49.36	5.11	1.17

Applicable Standards and limits

A. Control of Visible Emissions

COMAR 26.11.09.05 - Visible Emissions.

“A. Fuel Burning Equipment.

(2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity.

(3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty-minute period.”

Compliance Demonstration

The Permittee shall verify that there are no visible emissions when burning No.2 fuel oil. An observer shall perform an EPA Reference Method 9 observation of stack emissions for 18-minute period at least once every 168 hours of operation on oil or at a minimum once per calendar year.

The Permittee shall perform the following if emissions are visible to human observer:

- (a) inspect combustion control system and combustion turbine operations,
- (b) perform all necessary adjustments and/or repairs to the combustion turbine within 48 hours of operation so that visible emissions are eliminated; and
- (c) document in writing the results of inspections, adjustments and/or repairs to the combustion turbine.

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(d) after 48 hours of operation, if the required adjustments and/or repairs had not eliminated the visible emissions, the Permittee shall perform a Method 9 observation once daily when combustion turbine is operating for 18 minutes until corrective action have eliminated visible emissions. The requirement for the observation is waived if no fuel oil is burned in the combustion turbines during a calendar year. The Permittee shall maintain a copy of the visible emissions observations on site for at least five years and make available to the Department upon request. The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations". **[Reference: COMAR 26.11.03.06C]**

Rationale for Periodic Monitoring:

Combustion turbines when burning natural gas or No. 2 fuel oil rarely have visible emissions if properly operated and maintained. The turbines only operate less than 500 hours per year and the majority of time on natural gas. There is more than sufficient time to perform maintenance.

B. Control of Sulfur Oxides

1. PSD Approval

COMAR 26.11.09.07A(2) & CPCN Order No. 68851 Case No. 8063 condition 27 which limits sulfur in fuel content to no more than 0.3% sulfur, by weight.

CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits sulfur emissions to 34 pounds per hour per combustion turbine when firing natural gas and 579 pounds per hour when firing distillate fuel oil. Total annual emissions of SO₂ from the two turbines are limited to 1249 tons in any consecutive 12-month period.

2. NSPS Subpart GG

40 CFR §60.333 which limits sulfur in fuel content to 0.8%.

Compliance Demonstration

1. PSD Approval & NSPS Subpart GG:

The Permittee shall NSPS fuel oil, gas testing and sampling requirements and Acid Rain Monitoring Requirements. **[Reference: 40 CFR §60.334, CPCN 8063 Condition 16, & 40 CFR Appendix B]**

The Permittee shall comply with the fuel flow and heat input monitoring requirements. **[Reference: 40 CFR 75 Appendix D]**

The Permittee shall maintain file of all measurements of testing and monitoring. **[Reference: 40 CFR §60.7(f)]**

The Permittee shall submit quarterly reports to the Department and the Public Service Commission. **[Reference: 40 CFR §60.334(j) & CPCN Order No. 68851 Case No. 8063 condition 28]**

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Acid Rain Provisions

The Permittee shall comply with the requirements of the renewal Phase II Acid Rain Permit issued in conjunction with this Part 70 permit. The Acid Rain Permit is attached to the permit in Appendix A.

Cross-State Air Pollution Rule

See Table IV-2: CSAPR for requirements

C. Control of Nitrogen Oxides

1. NO_x RACT

COMAR 26.11.09.08G. - Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less, and Combustion Turbines with a Capacity Factor Greater than 15 Percent.

“(1) A person who owns or operates fuel-burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall:

(a) Provide certification of the capacity factor of the equipment to the Department in writing;

(b) For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually;

(c) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request.”

(2) A person who owns or operates a combustion turbine with a capacity factor greater than 15 percent shall meet an hourly average NO_x emission rate of not more than 42 ppm when burning gas or 65 ppm when burning oil (dry volume at 15 percent oxygen) or meet applicable Prevention of Significant Deterioration limits, whichever is more restrictive.”

Compliance Demonstration

If the gas turbine operates more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion at least once annually. **[Reference: COMAR 26.11.09.08G(1)(b)]** If the Permittee operates the engine in excess of 15 percent capacity factor, the Permittee shall demonstrate compliance with the 42-ppm limit (on gas) by performing an EPA Reference Method Test within 120 days after exceeding the 15 percent capacity factor. The Permittee shall submit a test protocol to the Department for approval at least 30 days prior to the proposed test date. For engines that operate more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion. The Permittee shall calculate the capacity factor of the engine within 30 days after the end of each month. **[Reference: COMAR 26.11.03.06C].**

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The Permittee shall maintain the results of the combustion analysis and any stack tests at the site for at least 5 years and make these results available to the Department and the EPA upon request. The Permittee shall maintain records if the calculations of the capacity factors. **[Reference: COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C]**

The Permittee shall provide certification of the annual capacity factor of the equipment to the Department with the support documentation in the Annual Emission Certification Report. **[Reference: COMAR 26.11.09.08G(1)(a) COMAR 26.11.03.06C].**

2. PSD Limitation

CPCN Order No. 68851 Case No. 8063 condition 15 which limits NO_x emissions to no more than 42 parts per million dry (ppmvd) at 15 percent O₂ when firing natural gas. When firing No. 2 fuel oil, emissions, in ppmvd at 15 percent O₂ will be limited to no more than:

$$57 \quad \text{for } N \leq 0.015$$

and

$$57 + 400N \quad \text{for } N > 0.015$$

where N is the nitrogen content of the fuel in percent by weight.

Maximum moisturization will be used to control NO_x emissions from the combustion turbines for Elements I and II. For this purpose, maximum moisturization is defined as the highest practical combustion zone water injection rate that can be used to control the emissions of nitrogen oxides consistent with manufacturer's guarantees. Maximum moisturization, and the resulting NO_x emissions limits, were determined from tests performed by GenOn. GenOn submitted what has been determined by these tests to be the definition of maximum moisturization to the Maryland Departments of Natural Resources and Environment for approval. At no time will the water to fuel ratio be less than that needed to achieve the following NO_x emissions limits.

CPCN Order No. 68851 Case No. 8063 condition 17 and 18 which limits NO_x emissions from each combustion turbine to 321 pounds per hour when firing natural gas and 608 pounds per hour when firing distillate fuel oil. Total annual emissions of NO_x from the two turbines are limited to 1311 tons per consecutive 12-month period.

CPCN Order No. 68851 Case No. 8063 condition 26 which limits the annual average nitrogen content of the fuel oil burned in the combustion turbines to not more than 0.05%, by weight.

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Compliance Demonstration

The Permittee shall conduct testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. **[Reference: 40 CFR 75 Appendix E]**

The Permittee shall monitor the water to fuel ratio for NSPS Subpart GG and operating of PEM under Acid Rain Part 75 requirements. **[Reference: 40 CFR §60.334 & 40 CFR 75 Appendix E]**

In addition to NSPS requirements, Dickerson Power shall also report quarterly to the Maryland Air and Radiation Administration and the Public Service Commission, anyone-hour period during which the average water-to-fuel ratio fell below the water-to-fuel ratio used to demonstrate compliance with the NO_x emission concentration limits given in condition No. 15.

[Reference: CPCN Order No. 68851 Case No. 8063 Condition 16 & 26]

Note: The Permittee is required to perform NO_x testing on the two turbines to satisfy the requirements of the Acid Rain Program. The Permittee currently performs testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. The results of this testing will be used to support the demonstration of compliance with NO_x standards and limits of the PSD Approval and NSPS Subpart GG. See quality assurance requirements for the continuous monitoring for NO_x for 40 CFR Part 75- Acid Rain Program. **[Reference: Acid Rain Permit, CSAPR, 40 CFR 75 Appendix E]**

3. NSPS Subpart GG

40 CFR §60.332 - Standard for nitrogen oxides.

“No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere a from any stationary gas turbine, any gases which contain nitrogen oxides in excess of:

$$\text{STD} = (0.0075 \times (14.4/Y)) + F$$

Where:

STD = allowable NO_x emissions (percent by volume at 15 percent oxygen and on a dry basis)

Y = manufacturer's rated heat rate at manufacturer's rated load (kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour.

F = NO_x emission allowance for fuel-bound nitrogen as defined in 40 CFR §60.332(a)(3):

Fuel-Bound Nitrogen

(percent by weight)

N < 0.015

0.015 < N < 0.1

0.1 < N < 0.25

N > 0.25

F (NO_x percent by volume)

0

0.04(N)

0.004 + 0.0067(N – 0.1)

0.005”

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Compliance Demonstration

The Permittee shall conduct testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. **[Reference: 40 CFR 75 Appendix E]**

The Permittee shall monitor the water to fuel ratio for NSPS Subpart GG and operating of PEM under Acid Rain Part 75 requirements. **[Reference: 40 CFR §60.334 & 40 CFR 75 Appendix E]**

The Permittee shall maintain records of test results, analyses of nitrogen content of N of fuel, the water to fuel ratio and hours of operation.

[Reference: 40 CFR §60.7(f)]

The Permittee shall report quarterly to the Department, water-to-fuel ratios, hours of operation (oil and natural gas), fuel N content and total NO_x emissions.

[Reference: 40 CFR §60.334]

Acid Rain Provisions

These units are not subject to a NO_x limitation under Acid Rain because they are not coal-fired. However, the Permittee is required to comply with the continuous NO_x monitoring requirement of 40CFR Part 75 and associated record keeping and reporting requirements. **[Reference: Acid Rain Permit, 40 CFR 75 subpart G]**

Cross-State Air Pollution Rule

See Table IV-2: CSAPR for requirements

D. Control of Carbon Monoxide

PSD Approval

CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits carbon monoxide emissions to 90 pounds per hour per combustion turbine when firing natural gas and 91 pounds per hour when firing distillate fuel oil. Total annual emissions of carbon monoxide from the two turbines are limited to 263 tons per consecutive 12-month period.

Compliance Demonstration

The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they continue to operate as designed.

[Reference: COMAR 26.11.03.06C]

The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. **[Reference: COMAR 26.11.03.06C].**

The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]**

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Rationale for Periodic Monitoring:

The PSD limitations for carbon monoxide were based on the design of the turbines. If the Permittee performs preventive maintenance that relates to combustion performance, the Permittee will comply with the carbon monoxide limitations.

E. Control of VOC

CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits VOC emissions to 2 pounds per hour per combustion turbine when firing natural gas and 4 pounds per hour when firing distillate fuel oil. Total annual emissions of VOC from the two turbines are limited to 9.2 tons per consecutive 12-month period.

Compliance Demonstration

The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they continue to operate as designed. The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]**

Rationale for Periodic Monitoring:

The limitations for volatile organic compounds were based on the design of the turbines. If the Permittee performs preventive maintenance that relates to combustion performance, the Permittee will comply with the VOC limitations.

F. Control of Particulate Matter

PSD Approval

CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits PM₁₀ and total particulates emissions 21 pounds per hour per combustion turbine when firing natural gas and 27 pounds per hour when firing distillate fuel oil. Total annual emissions of particulates from the two turbines are limited to 60 tons per consecutive 12-month period.

Compliance Demonstration

The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they operate as designed. The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]**

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Rationale for Periodic Monitoring:

The PSD limitations for particulate matter were based on the design of the turbines. If the Permittee performs preventive maintenance that relates to combustion performance, the Permittee will comply with the PM limitations.

G. Operating Limitation on Fuel Use

The combustion turbines shall generate electricity using natural gas only. This requirement shall not apply during those times when the delivered cost per million Btu of natural gas exceeds the delivered cost per million Btu of No. 2 oil by 15 percent or during those times when the natural gas supply to the unit is curtailed or interrupted under the delivery contract during maintenance and repair. At such times, the unit shall use No. 2 oil only. Natural gas service curtailments or interruptions shall be verified by a letter each year from the unit's natural gas supplier identifying the dates on which gas service was restricted.

[Reference: CPCN Order #68851 Case No. 8063 Condition 13 and see note under Table IV-1.4 paragraph G –Letter further defining gas curtailment]

Compliance Demonstration

The Permittee shall maintain records to support the basis for burning fuel oil, either those times when the delivered cost per million Btu of natural gas exceeds the delivered cost per million Btu of No. 2 oil by 15 percent or during those times when the natural gas supply to the unit is curtailed or interrupted under the delivery contract during maintenance and repair.

[Reference: CPCN Order #68851 Case No. 8063 Condition 13 & COMAR 26.11.03.06C]

Note: The Department, in a February 2, 2006, letter to GenOn, concurred with GenOn's proposal to clarify natural gas curtailments as follows:

Gas pipeline is out of service for maintenance or repair. Documentation of these events will be obtained through postings on the gas supplier's web site;

Gas supply is interrupted under the delivery contract. Documentation of these events will be obtained through postings on the gas supplier's web site;

One or more of the CT Units is called for by PJM to start or extend operation during periods of time when the pipeline operator is not open for business, typically between 6:00 PM and 10:00 AM daily. Dickerson Power will document PJM dispatch notices during these occasions and will purchase gas upon opening of the commercial gas trading market- typically, 10:00 AM, provided the price of delivered gas is not 15% or more of the price of delivered oil.

The 15% cost differential between natural gas and #2 fuel oil will be determined on the following basis:

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Daily publications from the Platts service will be utilized as representative industry benchmarks of natural gas and #2 oil pricing. Dickerson Power will document delivered gas-to-oil cost differential using these benchmarks. The delivered cost of #2 oil for Dickerson Power is calculated by taking the Platts *Oilgram* New York Harbor Barge price and adding \$0.0564/gallon in delivery charges. The delivered cost of natural gas for Dickerson Power is calculated by taking the Platts *Gas Daily* Transco Zone 5 South Non-New York price and adding \$0.10/MMBtu for delivery and \$0.22/MMBtu in Park and Loan fees. The delivered prices for #2 oil and natural gas are calculated on a daily basis to determine if the 15% cost differential is met for the current day unit dispatch.

CTs allowed to run on oil for test purposes after repairs or maintenance of the fuel oil system and its appurtenances for operability assurance.

Natural gas service curtailments or interruptions shall be verified by a letter each year from the unit's natural gas supplier identifying the dates on which gas service was restricted. **[Reference: CPCN Order #68851 Case No. 8063 Condition 13]**

Emissions Unit Number(s): HCT-1: (CAMD ID-GT2) & HCT-2: (CAMD ID-GT3): Combustion Turbines Cont'd

Cross State Air Pollution Rule (CSAPR)

HCT-1 and HCT-2: Two (2) General Electric Frame 7F combustion turbines each with a nominal rated capacity of 167 megawatts located at Station H. These combustion turbines fire primarily natural gas and No. 2 fuel oil as a secondary fuel. The units are equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NO_x emissions. **[9-0362 & 9-0363]**

Applicable Standards and limits

COMAR 26.11.28.02 - Requirements.

A. This chapter incorporates by reference the U.S. EPA CSAPR and the CSAPR Update, including the definitions, criteria, and procedures therein.

B. Trading Program Requirements.

(1) This chapter incorporates by reference provisions of the CSAPR NO_x Annual Trading Program set forth in 40 CFR Part 97, Subpart AAAAA, as published July 1, 2017, and associated reference methods, performance specifications, and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §97.411(b)(2) and (c)(5)(iii), 97.412(b), and 97.421(h) and (j).

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(2) This chapter incorporates by reference provisions of the CSAPR NO_x Ozone Season Group 2 Trading Program set forth in 40 CFR Part 97, Subpart EEEEE, as published July 1, 2017, and associated reference methods, performance specifications and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §§97.811(b)(2) and (c)(5)(iii), 97.812(b), and 97.821(h) and (j). ***(This is superseded by Group 3 Subpart GGGGG published April 30, 2021, effective June 29, 2021. In accordance with 40 CFR Part 52.38 for the purpose of Part 97 while a stay of the Group 3 Trading Program is in effect, this facility shall be subject to Subpart EEEEE – CSAPR NO_x Ozone Season Group 2 Trading Program).***

(3) This chapter incorporates by reference provisions of the CSAPR SO₂ Group 1 Trading Program set forth in 40 CFR Part 97, Subpart CCCCC, as published July 1, 2017, and associated reference methods, performance specifications and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §§97.611(b)(2) and (c)(5)(iii), 97.612(b), and 97.621(h) and (j).

**A. 40 CFR Part 97 Subpart AAAAA-CSAPR NO_x Annual Trading Program
CSAPR NO_x Annual Trading Program requirements (40 CFR 97.406)**

The Permittee shall comply with the provisions and requirements of §97.401 through §97.435.

Note: §97.406(c) NO_x emissions requirements. For CSAPR NO_x Annual emissions limitation: As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall hold, in the source's compliance account, CSAPR NO_x Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Annual units at the source.

Allowance transfer deadline means, for a control period in a given year, midnight of March 1 (if it is a business day), or midnight of the first business day thereafter (if March 1 is not a business day), immediately after such control period and is the deadline by which a CSAPR NO_x Annual allowance transfer must be submitted for recordation in a CSAPR NO_x Annual source's compliance account in order to be available for use in complying with the source's CSAPR NO_x Annual emissions limitation for such control period in accordance with §§97.406 and 97.424.

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**B. 40 CFR Part 97 Subpart CCCCC-CSAPR SO₂ Group 1 Trading Program
CSAPR SO₂ Group 1 Trading Program requirements (40 CFR 97.606)**

The Permittee shall comply with the provisions and requirements of §97.601 through §97.635.

Note: §97.606(c) SO₂ emissions requirements. For CSAPR SO₂ Group 1 emissions limitation: As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO₂ Group 1 allowances available for deduction for such control period under §97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all CSAPR SO₂ Group 1 units at the source.

Allowance transfer deadline means, for a control period in a given year, midnight of March 1 (if it is a business day), or midnight of the first business day thereafter (if March 1 is not a business day), immediately after such control period and is the deadline by which a CSAPR SO₂ Group 1 allowance transfer must be submitted for recordation in a CSAPR SO₂ Group 1 source's compliance account in order to be available for use in complying with the source's CSAPR SO₂ Group 1 emissions limitation for such control period in accordance with §§97.606 and 97.624.

**C. 40 CFR Part 97 Subpart GGGGG-CSAPR NO_x Ozone Season Group 3
Trading Program
CSAPR NO_x Ozone Season Group 3 Trading Program Requirements (40
CFR 97.1006)**

The Permittee shall comply with the provisions and requirements of §97.1001 through §97.1035. ***(In accordance with 40 CFR Part 52.38 for the purpose of Part 97 while a stay of the Group 3 Trading Program is in effect, this facility shall be subject to Subpart EEEEE – CSAPR NO_x Ozone Season Group 2 Trading Program)***

Note: §97.1006(c) NO_x emissions requirements. For CSAPR NO_x Ozone Season Group 3 emissions limitation: As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 3 source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 3 allowances available for deduction for such control period under §97.1024(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 3 units at the source.

Allowance transfer deadline means, for a control period in a given year, midnight of March 1 (if it is a business day), or midnight of the first business day thereafter

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(if March 1 is not a business day), immediately after such control period and is the deadline by which a CSAPR NO_x Ozone Season Group 3 allowance transfer must be submitted for recordation in a CSAPR NO_x Ozone Season Group 3 source's compliance account in order to be available for use in complying with the source's CSAPR NO_x Ozone Season Group 3 emissions limitation for such control period in accordance with §§97.1006 and 97.1024.

Compliance Demonstration

The Permittee shall comply with the monitoring, record keeping, and reporting requirements found in §97.406, §97.430, §97.431, §97.432, and §97.433 for the CSAPR NO_x Annual Trading Program; §97.1006, §97.1030, §97.1031, §97.1032, §97.1033 and §97.1034 for the CSAPR NO_x Ozone Season Group 3 Trading Program; and §97.606, §97.630, §97.631, §97.632, and §97.633 and §97.634 for CSAPR SO₂ Group 1 Trading Program.

The Permittee operates continuous emission monitoring system (CEMS) pursuant to 40 CFR Part 75, Subpart B (for SO₂ monitoring) and 40 CFR Part 75, Subpart H (for NO_x monitoring).

D. 40 CFR Part 97 Subpart EEEEE—CSAPR NO_x Ozone Season Group 2 Trading Program

(In accordance with 40 CFR Part 52.38 for the purpose of Part 97 while a stay of the Group 3 Trading Program is in effect, this facility shall be subject to Subpart EEEEE – CSAPR NO_x Ozone Season Group 2 Trading Program)

Note: §97.806(c) NO_x emissions requirements. For CSAPR NO_x Ozone Season Group 2 emissions limitation: As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under §97.824(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 2 units at the source.

Allowance transfer deadline means, for a control period in a given year, midnight of March 1 (if it is a business day), or midnight of the first business day thereafter (if March 1 is not a business day), immediately after such control period and is the deadline by which a CSAPR NO_x Ozone Season Group 2 allowance transfer must be submitted for recordation in a CSAPR NO_x Ozone Season Group 2 source's compliance account in order to be available for use in complying with the source's CSAPR NO_x Ozone Season Group 2 emissions limitation for such control period in accordance with §§97.806 and 97.824.

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Compliance Demonstration

The Permittee shall comply with the monitoring, record keeping, and reporting requirements found in §97.806, §97.830, §97.831, §97.832, §97.833 and §97.834 for the CSAPR NO_x Ozone Season Group 2 Trading Program.

COMPLIANCE SCHEDULE

Dickerson Generating Station is currently in compliance with all applicable air quality regulations.

TITLE IV – ACID RAIN

Dickerson Generating Station is subject to the Acid Rain Program requirements. The Phase II Acid Rain Permit renewal will be issued in conjunction with this Part 70 permit.

TITLE VI – OZONE DEPLETING SUBSTANCES

Dickerson Generating Station shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F.

SECTION 112(r) – ACCIDENTAL RELEASE

Dickerson Generating Station is not subject to the requirements of Section 112(r).

PERMIT SHIELD

The Dickerson Generating Station facility requested that a permit shield be expressly included in the Permittee's Part 70 permit. Permit shields are granted on an emission unit by emission unit basis. If an emission unit is covered by a permit shield, a permit shield statement will follow the emission unit table in Section IV - Plant Specific Conditions of the permit. In this case, a permit shield was granted for each emission unit covered by the permit.

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SECTION V INSIGNIFICANT ACTIVITIES

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

- (1) No. 2 Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

The stationary affected units are subject to the following requirements:

- (A) COMAR 26.11.09.05E(2), Emissions During Idle Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.
- (B) COMAR 26.11.09.05E(3), Emissions During Operating Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.
- (C) Exceptions:
 - (i) COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
 - (ii) COMAR 26.11.09.05E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
 - (a) Engines that are idled continuously when not in service: 30 minutes
 - (b) all other engines: 15 minutes.
 - (iii) COMAR 26.11.09.05E(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.
- (D) COMAR 26.11.09.07A(2)(b), which establishes that the Permittee may not burn, sell, or make available for sale

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any distillate fuel with a sulfur content by weight in excess of 0.3 percent.

(2) Containers, reservoirs, or tanks used exclusively for:

- (a) ✓ Storage of butane, propane, or liquefied petroleum, or natural gas;
- (b) No. 6 Storage of lubricating oils;
- (c) No. 1 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;
- (d) No. 1 Storage of motor vehicle gasoline and having individual tank capacities of 2,000 gallons (7.6 cubic meters) or less;
- (e) No. 250 The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;

(3) ✓ Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks display, and kerosene fuel use;

(4) ✓ Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;

(5) Any other emissions unit, not listed in this section, with potential to emit less than the "de minimus" levels listed in COMAR 26.11.02.10X:

- No. 1 125,000 BTU Protemp Portable Kerosene Heater
- No. 2 135,000 BTU Remington 135 Portable Kerosene Heater
- No. 3 140,000 BTU Val 6 Infrared Portable Kerosene Heater
- No. 1 100,000 BTU Thermoheat Portable Kerosene Heater

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STATE ONLY ENFORCEABLE REQUIREMENTS

The Permittee is subject to the following State-only enforceable requirements:

Applicable Regulations:

COMAR 26.11.06.08 – Nuisance. “An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be construed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution.”

COMAR 26.11.06.09 - Odors. “A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created.”

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Acid Rain Permit

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CO₂ Budget Permit

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SECTION I SOURCE IDENTIFICATION

1. DESCRIPTION OF FACILITY

The Dickerson Generating Station is engaged in the generation of electric energy for sale. The primary SIC code for this facility is 4911. The major components of the facility consist of two (2) peaking service combustion turbines primarily firing natural gas located on site at Station H.

The two (2) combustion turbines manufactured by General Electric are used for peaking capacity. Each is rated at 167 megawatts and fires primarily natural gas and No. 2 fuel oil as secondary fuel. Each combustion turbine exhausts through a 130-foot stack.

2. FACILITY INVENTORY LIST

Emissions Unit Number	MDE - ARA Registration Number	Emissions Unit Name and Description	Date of Installation
HCT-1 (CAMD ID GT2)	9-0362	Unit HCT-1 is a General Electric Frame 7F combustion turbine that fires primarily natural gas and No. 2 fuel oil as a secondary fuel. The combustion turbine has a rated capacity of 167 megawatts. The combustion turbine is equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NO _x emissions. The exhaust is directed to a single 130-foot-high stack.	June 1992
HCT-2 (CAMD ID GT3)	9-0363	Unit HCT-2 is a General Electric Frame 7F combustion turbine that fires primarily natural gas and No. 2 fuel oil as a secondary fuel. The combustion turbine has a rated capacity of 167 megawatts. The combustion turbine is equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NO _x emissions. The exhaust is directed to a single 130-foot-high stack.	June 1993

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SECTION II GENERAL CONDITIONS

1. DEFINITIONS

[COMAR 26.11.01.01] and [COMAR 26.11.02.01]

The words or terms in this Part 70 permit shall have the meanings established under COMAR 26.11.01 and .02 unless otherwise stated in this permit.

2. ACRONYMS

ARA	Air and Radiation Administration
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEM	Continuous Emissions Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMAR	Code of Maryland Regulations
EPA	United States Environmental Protection Agency
FR	Federal Register
gr	grains
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
MDE	Maryland Department of the Environment
MVAC	Motor Vehicle Air Conditioner
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
OTR	Ozone Transport Region
PM	Particulate Matter
PM ₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 micrometers or less
ppm	parts per million
ppb	parts per billion
PSD	Prevention of Significant Deterioration
PTC	Permit to construct
PTO	Permit to operate (State)
SIC	Standard Industrial Classification

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SO ₂	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	tons per year
VE	Visible Emissions
VOC	Volatile Organic Compounds

3. EFFECTIVE DATE

The effective date of the conditions in this Part 70 permit is the date of permit issuance, unless otherwise stated in the permit.

4. PERMIT EXPIRATION

[COMAR 26.11.03.13B(2)]

Upon expiration of this permit, the terms of the permit will automatically continue to remain in effect until a new Part 70 permit is issued for this facility provided that the Permittee has submitted a timely and complete application and has paid applicable fees under COMAR 26.11.02.16.

Otherwise, upon expiration of this permit the right of the Permittee to operate this facility is terminated.

5. PERMIT RENEWAL

[COMAR 26.11.03.02B(3)] and [COMAR 26.11.03.02E]

The Permittee shall submit to the Department a completed application for renewal of this Part 70 permit at least 12 months before the expiration of the permit. Upon submitting a completed application, the Permittee may continue to operate this facility pending final action by the Department on the renewal.

The Permittee, upon becoming aware that any relevant facts were omitted, or incorrect information was submitted in the permit application, shall submit such supplementary facts or corrected information no later than 10 days after becoming aware that this occurred. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after the date a completed application was submitted, but prior to the release of a draft

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permit. This information shall be submitted to the Department no later than 20 days after a new requirement has been adopted.

6. CONFIDENTIAL INFORMATION

[COMAR 26.11.02.02G]

In accordance with the provisions of the State Government Article, Sec. 10-611 et seq., Annotated Code of Maryland, all information submitted in an application shall be considered part of the public record and available for inspection and copying, unless the Permittee claims that the information is confidential when it is submitted to the Department. At the time of the request for inspection or copying, the Department will make a determination with regard to the confidentiality of the information. The Permittee, when requesting confidentiality, shall identify the information in a manner specified by the Department and, when requested by the Department, promptly provide specific reasons supporting the claim of confidentiality. Information submitted to the Department without a request that the information be deemed confidential may be made available to the public. Subject to approval of the Department, the Permittee may provide a summary of confidential information that is suitable for public review. The content of this Part 70 permit is not subject to confidential treatment.

7. PERMIT ACTIONS

[COMAR 26.11.03.06E(3)] and [COMAR 26.11.03.20(A)]

This Part 70 permit may be revoked or reopened and revised for cause. The filing of an application by the Permittee for a permit revision or renewal; or a notification of termination, planned changes or anticipated noncompliance by the facility, does not stay a term or condition of this permit.

The Department shall reopen and revise, or revoke the Permittee's Part 70 permit under the following circumstances:

- a. Additional requirements of the Clean Air Act become applicable to this facility and the remaining permit term is 3 years or more;

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- b. The Department or the EPA determines that this Part 70 permit contains a material mistake, or is based on false or inaccurate information supplied by or on behalf of the Permittee;
- c. The Department or the EPA determines that this Part 70 permit must be revised or revoked to assure compliance with applicable requirements of the Clean Air Act; or
- d. Additional requirements become applicable to an affected source under the Federal Acid Rain Program.

8. PERMIT AVAILABILITY

[COMAR 26.11.02.13G]

The Permittee shall maintain this Part 70 permit in the vicinity of the facility for which it was issued, unless it is not practical to do so, and make this permit immediately available to officials of the Department upon request.

9. REOPENING THE PART 70 PERMIT FOR CAUSE BY THE EPA

[COMAR 26.11.03.20B]

The EPA may terminate, modify, or revoke and reissue a permit for cause as prescribed in 40 CFR §70.7(g)

10. TRANSFER OF PERMIT

[COMAR 26.11.02.02E]

The Permittee shall not transfer this Part 70 permit except as provided in COMAR 26.11.03.15.

11. REVISION OF PART 70 PERMITS – GENERAL CONDITIONS

[COMAR 26.11.03.14] and [COMAR 26.11.03.06A(8)]

- a. The Permittee shall submit an application to the Department to revise this Part 70 permit when required under COMAR 26.11.03.15 -.17.

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- b. When applying for a revision to a Part 70 permit, the Permittee shall comply with the requirements of COMAR 26.11.03.02 and .03 except that the application for a revision need include only information listed that is related to the proposed change to the source and revision to the permit. This information shall be sufficient to evaluate the proposed change and to determine whether it will comply with all applicable requirements of the Clean Air Act.
- c. The Permittee may not change any provision of a compliance plan or schedule in a Part 70 permit as an administrative permit amendment or as a minor permit modification unless the change has been approved by the Department in writing.
- d. A permit revision is not required for a change that is provided for in this permit relating to approved economic incentives, marketable permits, emissions trading, and other similar programs.

12. SIGNIFICANT PART 70 OPERATING PERMIT MODIFICATIONS

[COMAR 26.11.03.17]

The Permittee may apply to the Department to make a significant modification to its Part 70 Permit as provided in COMAR 26.11.03.17 and in accordance with the following conditions:

- a. A significant modification is a revision to the federally enforceable provisions in the permit that does not qualify as an administrative permit amendment under COMAR 26.11.03.15 or a minor permit modification as defined under COMAR 26.11.03.16.
- b. This permit does not preclude the Permittee from making changes, consistent with the provisions of COMAR 26.11.03, that would make the permit or particular terms and conditions of the permit irrelevant, such as by shutting down or reducing the level of operation of a source or of an emissions unit within the source. Air pollution control equipment shall not be shut down or its level of operation reduced if doing so would violate any term of this permit.
- c. Significant permit modifications are subject to all requirements of COMAR 26.11.03 as they apply to permit issuance and renewal,

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including the requirements for applications, public participation, and review by affected states and EPA, except:

- (1) An application need include only information pertaining to the proposed change to the source and modification of this permit, including a description of the change and modification, and any new applicable requirements of the Clean Air Act that will apply if the change occurs;
 - (2) Public participation, and review by affected states and EPA, is limited to only the application and those federally enforceable terms and conditions of the Part 70 permit that are affected by the significant permit modification.
- d. As provided in COMAR 26.11.03.15B(5), an administrative permit amendment may be used to make a change that would otherwise require a significant permit modification if procedures for enhanced preconstruction review of the change are followed that satisfy the requirements of 40 CFR 70.7(d)(1)(v).
 - e. Before making a change that qualifies as a significant permit modification, the Permittee shall obtain all permits-to-construct and approvals required by COMAR 26.11.02.
 - f. The Permittee shall not make a significant permit modification that results in a violation of any applicable requirement of the Clean Air Act.
 - g. The permit shield in COMAR 26.11.03.23 applies to a final significant permit modification that has been issued by the Department, to the extent applicable under COMAR 26.11.03.23.

13. MINOR PERMIT MODIFICATIONS

[COMAR 26.11.03.16]

The Permittee may apply to the Department to make a minor modification to the federally enforceable provisions of this Part 70 permit as provided in COMAR 26.11.03.16 and in accordance with the following conditions:

- a. A minor permit modification is a Part 70 permit revision that:

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- (1) Does not result in a violation of any applicable requirement of the Clean Air Act;
- (2) Does not significantly revise existing federally enforceable monitoring, including test methods, reporting, record keeping, or compliance certification requirements except by:
 - (a) Adding new requirements,
 - (b) Eliminating the requirements if they are rendered meaningless because the emissions to which the requirements apply will no longer occur, or
 - (c) Changing from one approved test method for a pollutant and source category to another;
- (3) Does not require or modify a:
 - (a) Case-by-case determination of a federally enforceable emissions standard,
 - (b) Source specific determination for temporary sources of ambient impacts, or
 - (c) Visibility or increment analysis;
- (4) Does not seek to establish or modify a federally enforceable permit term or condition for which there is no corresponding underlying applicable requirement of the Clean Air Act, but that the Permittee has assumed to avoid an applicable requirement to which the source would otherwise be subject, including:
 - (a) A federally enforceable emissions standard applied to the source pursuant to COMAR 26.11.02.03 to avoid classification as a Title I modification; and
 - (b) An alternative emissions standard applied to an emissions unit pursuant to regulations promulgated under Section 112(i)(5) of the Clean Air Act
- (5) Is not a Title I modification; and

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- (6) Is not required under COMAR 26.11.03.17 to be processed as a significant modification to this Part 70 permit.

b. Application for a Minor Permit Modification

The Permittee shall submit to the Department an application for a minor permit modification that satisfies the requirements of COMAR 26.11.03.03 which includes the following:

- (1) A description of the proposed change, the emissions resulting from the change, and any new applicable requirements that will apply if the change is made;
- (2) The proposed minor permit modification;
- (3) Certification by a responsible official, in accordance with COMAR 26.11.02.02F, that:
 - (a) The proposed change meets the criteria for a minor permit modification, and
 - (b) The Permittee has obtained or applied for all required permits-to-construct required by COMAR 26.11.03.16 with respect to the proposed change;
- (4) Completed forms for the Department to use to notify the EPA and affected states, as required by COMAR 26.11.03.07-.12.

c. Permittee's Ability to Make Change

- (1) For changes proposed as minor permit modifications to this permit that will require the applicant to obtain a permit to construct, the permit to construct must be issued prior to the new change.
- (2) During the period of time after the Permittee applies for a minor modification but before the Department acts in accordance with COMAR 26.11.03.16F(2):
 - (a) The Permittee shall comply with applicable requirements of the Clean Air Act related to the change and the permit terms and conditions described in the application for the minor modification.

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- (b) The Permittee is not required to comply with the terms and conditions in the permit it seeks to modify. If the Permittee fails to comply with the terms and conditions in the application during this time, the terms and conditions of both this permit and the application for modification may be enforced against it.
- d. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.16 is not within the scope of this regulation.
- e. Minor permit modification procedures may be used for Part 70 permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, but only to the extent that the minor permit modification procedures are explicitly provided for in regulations approved by the EPA as part of the Maryland SIP or in other applicable requirements of the Clean Air Act.

14. ADMINISTRATIVE PART 70 OPERATING PERMIT AMENDMENTS

[COMAR 26.11.03.15]

The Permittee may apply to the department to make an administrative permit amendment as provided in COMAR 26.11.03.15 and in accordance with the following conditions:

- a. An application for an administrative permit amendment shall:
 - (1) Be in writing;
 - (2) Include a statement certified by a responsible official that the proposed amendment meets the criteria in COMAR 26.11.03.15 for an administrative permit amendment, and
 - (3) Identify those provisions of this part 70 permit for which the amendment is requested, including the basis for the request.
- b. An administrative permit amendment:
 - (1) Is a correction of a typographical error;

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- (2) Identifies a change in the name, address, or phone number of a person identified in this permit, or a similar administrative change involving the Permittee or other matters which are not directly related to the control of air pollution;
 - (3) requires more frequent monitoring or reporting by the Permittee;
 - (4) Allows for a change in ownership or operational control of a source for which the Department determines that no other revision to the permit is necessary and is documented as per COMAR 26.11.03.15B(4);
 - (5) Incorporates into this permit the requirements from preconstruction review permits or approvals issued by the Department in accordance with COMAR 26.11.03.15B(5), but only if it satisfies 40 CFR 70.7(d)(1)(v);
 - (6) Incorporates any other type of change, as approved by the EPA, which is similar to those in COMAR 26.11.03.15B(1)—(4);
 - (7) Notwithstanding COMAR 26.11.03.15B(1)—(6), all modifications to acid rain control provisions included in this Part 70 permit are governed by applicable requirements promulgated under Title IV of the Clean Air Act; or
 - (8) Incorporates any change to a term or condition specified as State-only enforceable, if the Permittee has obtained all necessary permits-to-construct and approvals that apply to the change.
- c. The Permittee may make the change addressed in the application for an administrative amendment upon receipt by the Department of the application, if all permits-to-construct or approvals otherwise required by COMAR 26.11.02 prior to making the change have first been obtained from the Department.
- d. The permit shield in COMAR 26.11.03.23 applies to administrative permit amendments made under Section B(5) of COMAR 26.11.03.15 , but only after the Department takes final action to revise the permit.

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- e. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.15 is not within the scope of this regulation.

15. OFF-PERMIT CHANGES TO THIS SOURCE

[COMAR 26.11.03.19]

The Permittee may make off-permit changes to this facility as provided in COMAR 26.11.03.19 and in accordance with the following conditions:

- a. The Permittee may make a change to this permitted facility that is not addressed or prohibited by the federally enforceable conditions of this Part 70 permit without obtaining a Part 70 permit revision if:
 - (1) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;
 - (2) The change is not subject to any requirements under Title IV of the Clean Air Act;
 - (3) The change is not a Title I modification; and
 - (4) The change does not violate an applicable requirement of the Clean Air Act or a federally enforceable term or condition of the permit.
- b. For a change that qualifies under COMAR 26.11.03.19, the Permittee shall provide contemporaneous written notice to the Department and the EPA, except for a change to an emissions unit or activity that is exempt from the Part 70 permit application, as provided in COMAR 26.11.03.04. This written notice shall describe the change, including the date it was made, any change in emissions, including the pollutants emitted, and any new applicable requirements of the Clean Air Act that apply as a result of the change.
- c. Upon satisfying the requirements of COMAR 26.11.03.19, the Permittee may make the proposed change.
- d. The Permittee shall keep a record describing:

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- (1) Changes made at the facility that result in emissions of a regulated air pollutant subject to an applicable requirement of the Clean Air Act, but not otherwise regulated under this permit; and
 - (2) The emissions resulting from those changes.
- e. Changes that qualify under COMAR 26.11.03.19 are not subject to the requirements for Part 70 revisions.
- f. The Permittee shall include each off-permit change under COMAR 26.11.03.19 in the application for renewal of the part 70 permit.
- g. The permit shield in COMAR 26.11.03.23 does not apply to off-permit changes made under COMAR 26.11.03.19.
- h. The Permittee is subject to enforcement action if it is determined that an off-permit change made under COMAR 26.11.03.19 is not within the scope of this regulation.

16. ON-PERMIT CHANGES TO SOURCES

[COMAR 26.11.03.18]

The Permittee may make on-permit changes that are allowed under Section 502(b)(10) of the Clean Air Act as provided in COMAR 26.11.03.18 and in accordance with the following conditions:

- a. The Permittee may make a change to this facility without obtaining a revision to this Part 70 permit if:
 - (1) The change is not a Title I modification;
 - (2) The change does not result in emissions in excess of those expressly allowed under the federally enforceable provisions of the Part 70 permit for the permitted facility or for an emissions unit within the facility, whether expressed as a rate of emissions or in terms of total emissions;
 - (3) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;

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- (4) The change does not violate an applicable requirement of the Clean Air Act;
 - (5) The change does not violate a federally enforceable permit term or condition related to monitoring, including test methods, record keeping, reporting, or compliance certification requirements;
 - (6) The change does not violate a federally enforceable permit term or condition limiting hours of operation, work practices, fuel usage, raw material usage, or production levels if the term or condition has been established to limit emissions allowable under this permit;
 - (7) If applicable, the change does not modify a federally enforceable provision of a compliance plan or schedule in this Part 70 permit unless the Department has approved the change in writing; and
 - (8) This permit does not expressly prohibit the change under COMAR 26.11.03.18.
- b. The Permittee shall notify the Department and the EPA in writing of a proposed on-permit change under COMAR 26.11.03.18 not later than 7 days before the change is made. The written information shall include the following information:
 - (1) A description of the proposed change;
 - (2) The date on which the change is proposed to be made;
 - (3) Any change in emissions resulting from the change, including the pollutants emitted;
 - (4) Any new applicable requirement of the Clean Air Act; and
 - (5) Any permit term or condition that would no longer apply.
- c. The responsible official of this facility shall certify in accordance with COMAR 26.11.02.02F that the proposed change meets the criteria for the use of on-permit changes under COMAR 26.11.03.18.
- d. The Permittee shall attach a copy of each notice required by condition b. above to this Part 70 permit.

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- e. On-permit changes that qualify under COMAR 26.11.03.18 are not subject to the requirements for part 70 permit revisions.
- f. Upon satisfying the requirements under COMAR 26.11.03.18, the Permittee may make the proposed change.
- g. The permit shield in COMAR 26.11.03.23 does not apply to on-permit changes under COMAR 26.11.03.18.
- h. The Permittee is subject to enforcement action if it is determined that an on-permit change made under COMAR 26.11.03.18 is not within the scope of the regulation or violates any requirement of the State air pollution control law.

17. FEE PAYMENT

[COMAR 26.11.02.16A(2) & (5)(b)]

- a. The fee for this Part 70 permit is as prescribed in Regulation .19 of COMAR 26.11.02.
- b. The fee is due on and shall be paid on or before each 12-month anniversary date of the permit.
- c. Failure to pay the annual permit fee constitutes cause for revocation of the permit by the Department.

18. REQUIREMENTS FOR PERMITS-TO-CONSTRUCT AND APPROVALS

[COMAR 26.11.02.09.]

The Permittee may not construct or modify or cause to be constructed or modified any of the following sources without first obtaining, and having in current effect, the specified permits-to-construct and approvals:

- a. New Source Review source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;

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- b. Prevention of Significant Deterioration source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;
- c. New Source Performance Standard source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;
- d. National Emission Standards for Hazardous Air Pollutants source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;
- e. A stationary source of lead that discharges one ton per year or more of lead or lead compounds measured as elemental lead, permit to construct required, except for generating stations constructed by electric companies;
- f. All stationary sources of air pollution, including installations and air pollution control equipment, except as listed in COMAR 26.11.02.10, permit to construct required;
- g. In the event of a conflict between the applicability of (a.— e.) above and an exemption listed in COMAR 26.11.02.10, the provision that requires a permit applies.
- h. Approval of a PSD or NSR source by the Department does not relieve the Permittee obtaining an approval from also obtaining all permits-to-construct required by (c.— g.) above.

19. CONSOLIDATION OF PROCEDURES FOR PUBLIC PARTICIPATION

[COMAR 26.11.02.11C] and [COMAR 26.11.03.01K]

The Permittee may request the Department to authorize special procedures for the Permittee to apply simultaneously, to the extent possible, for a permit to construct and a revision to this permit.

These procedures may provide for combined public notices, informational meetings, and public hearings for both permits but shall not adversely affect the rights of a person, including EPA and affected states, to obtain information about the application for a permit, to comment on an application, or to challenge a permit that is issued.

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These procedures shall not alter any existing permit procedures or time frames.

20. PROPERTY RIGHTS

[COMAR 26.11.03.06E(4)]

This Part 70 permit does not convey any property rights of any sort, or any exclusive privileges.

21. SEVERABILITY

[COMAR 26.11.03.06A(5)]

If any portion of this Part 70 permit is challenged, or any term or condition deemed unenforceable, the remainder of the requirements of the permit continues to be valid.

22. INSPECTION AND ENTRY

[COMAR 26.11.03.06G(3)]

The Permittee shall allow employees and authorized representatives of the Department, the EPA, and local environmental health agencies, upon presentation of credentials or other documents as may be required by law, to:

- a. Enter at a reasonable time without delay and without prior notification the Permittee's property where a Part 70 source is located, emissions-related activity is conducted, or records required by this permit are kept;
- b. Have access to and make copies of records required by the permit;
- c. Inspect all emissions units within the facility subject to the permit and all related monitoring systems, air pollution control equipment, and practices or operations regulated or required by the permit; and

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- d. Sample or monitor any substances or parameters at or related to the emissions units at the facility for the purpose of determining compliance with the permit.

23. DUTY TO PROVIDE INFORMATION

[COMAR 26.11.03.06E(5)]

The Permittee shall furnish to the Department, within a reasonable time specified by the Department, information requested in writing by the Department in order to determine whether the Permittee is in compliance with the federally enforceable conditions of this Part 70 permit, or whether cause exists for revising or revoking the permit. Upon request, the Permittee shall also furnish to the Department records required to be kept under the permit.

For information claimed by the Permittee to be confidential and therefore potentially not disclosable to the public, the Department may require the Permittee to provide a copy of the records directly to the EPA along with a claim of confidentiality.

The Permittee shall also furnish to the Department, within a reasonable time specified by the Department, information or records requested in writing by the Department in order to determine if the Permittee is in compliance with the State-only enforceable conditions of this permit.

24. COMPLIANCE REQUIREMENTS

[COMAR 26.11.03.06E(1)] and [COMAR 26.11.03.06A(11)] and [COMAR 26.11.02.05]

The Permittee shall comply with the conditions of this Part 70 permit. Noncompliance with the permit constitutes a violation of the Clean Air Act, and/or the Environment Article Title 2 of the Annotated Code of Maryland and may subject the Permittee to:

- a. Enforcement action,
- b. Permit revocation or revision,
- c. Denial of the renewal of a Part 70 permit, or

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d. Any combination of these actions.

The conditions in this Part 70 permit are enforceable by EPA and citizens under the Clean Air Act except for the State-only enforceable conditions.

Under Environment Article Section 2-609, Annotated Code of Maryland, the Department may seek immediate injunctive relief against a person who violates this permit in such a manner as to cause a threat to human health or the environment.

25. CREDIBLE EVIDENCE

Nothing in this permit shall be interpreted to preclude the use of credible evidence to demonstrate noncompliance with any term of this permit.

26. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE

[COMAR 26.11.03.06E(2)]

The need to halt or reduce activity in order to comply with the conditions of this permit may not be used as a defense in an enforcement action.

27. CIRCUMVENTION

[COMAR 26.11.01.06]

The Permittee may not install or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total weight of emissions, conceals or dilutes emissions which would otherwise constitute a violation of any applicable air pollution control regulation.

28. PERMIT SHIELD

[COMAR 26.11.03.23]

A permit shield as described in COMAR 26.11.03.23 shall apply only to terms and conditions in this Part 70 permit that have been specifically

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identified as covered by the permit shield. Neither this permit nor COMAR 26.11.03.23 alters the following:

- a. The emergency order provisions in Section 303 of the Clean Air Act, including the authority of EPA under that section;
- b. The liability of the Permittee for a violation of an applicable requirement of the Clean Air Act before or when this permit is issued or for a violation that continues after issuance;
- c. The requirements of the Acid Rain Program, consistent with Section 408(a) of the Clean Air Act;
- d. The ability of the Department or EPA to obtain information from a source pursuant to Maryland law and Section 114 of the Clean Air Act; or
- e. The authority of the Department to enforce an applicable requirement of the State air pollution control law that is not an applicable requirement of the Clean Air Act.

29. ALTERNATE OPERATING SCENARIOS

[COMAR 26.11.03.06A(9)]

For all alternate operating scenarios approved by the Department and contained within this permit, the Permittee, while changing from one approved scenario to another, shall contemporaneously record in a log maintained at the facility each scenario under which the emissions unit is operating and the date and time the scenario started and ended.

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SECTION III PLANT WIDE CONDITIONS

1. PARTICULATE MATTER FROM CONSTRUCTION AND DEMOLITION

[COMAR 26.11.06.03D]

The Permittee shall not cause or permit any building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.

2. OPEN BURNING

[COMAR 26.11.07]

Except as provided in COMAR 26.11.07.04, the Permittee shall not cause or permit an open fire from June 1 through August 31 of any calendar year. Prior to any open burning, the Permittee shall request and receive approval from the Department.

3. AIR POLLUTION EPISODE

[COMAR 26.11.05.04]

When requested by the Department, the Permittee shall prepare in writing standby emissions reduction plans, consistent with good industrial practice and safe operating procedures, for reducing emissions creating air pollution during periods of Alert, Warning, and Emergency of an air pollution episode.

4. REPORT OF EXCESS EMISSIONS AND DEVIATIONS

[COMAR 26.11.01.07] and [COMAR 26.11.03.06C(7)]

The Permittee shall comply with the following conditions for occurrences of excess emissions and deviations from requirements of this permit, including those in Section VI – State-only Enforceable Conditions:

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- a. Report any deviation from permit requirements that could endanger human health or the environment, by orally notifying the Department immediately upon discovery of the deviation;
- b. Promptly report all occurrences of excess emissions that are expected to last for one hour or longer by orally notifying the Department of the onset and termination of the occurrence;
- c. When requested by the Department the Permittee shall report all deviations from permit conditions, including those attributed to malfunctions as defined in COMAR 26.11.01.07A, within 5 days of the request by submitting a written description of the deviation to the Department. The written report shall include the cause, dates and times of the onset and termination of the deviation, and an account of all actions planned or taken to reduce, eliminate, and prevent recurrence of the deviation;
- d. The Permittee shall submit to the Department semi-annual monitoring reports that confirm that all required monitoring was performed, and that provide accounts of all deviations from permit requirements that occurred during the reporting periods. Reporting periods shall be January 1 through June 30 and July 1 through December 31, and reports shall be submitted within 30 days of the end of each reporting period. Each account of deviation shall include a description of the deviation, the dates and times of onset and termination, identification of the person who observed or discovered the deviation, causes and corrective actions taken, and actions taken to prevent recurrence. If no deviations from permit conditions occurred during a reporting period, the Permittee shall submit a written report that so states.
- e. When requested by the Department, the Permittee shall submit a written report to the Department within 10 days of receiving the request concerning an occurrence of excess emissions. The report shall contain the information required in COMAR 26.11.01.07D(2).

5. ACCIDENTAL RELEASE PROVISIONS

[COMAR 26.11.03.03B(23)] and [40 CFR 68]

Should the Permittee become subject to 40 CFR 68 during the term of this permit, the Permittee shall submit risk management plans by the date

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specified in 40 CFR 68.150 and shall certify compliance with the requirements of 40 CFR 68 as part of the annual compliance certification as required by 40 CFR 70.

The Permittee shall initiate a permit revision or reopening according to the procedures of 40 CFR 70.7 to incorporate appropriate permit conditions into the Permittee's Part 70 permit.

6. GENERAL TESTING REQUIREMENTS

[COMAR 26.11.01.04]

The Department may require the Permittee to conduct, or have conducted, testing to determine compliance with this Part 70 permit. The Department, at its option, may witness or conduct these tests. This testing shall be done at a reasonable time, and all information gathered during a testing operation shall be provided to the Department.

7. EMISSIONS TEST METHODS

[COMAR 26.11.01.04]

Compliance with the emissions standards and limitations in this Part 70 permit shall be determined by the test methods designated and described below or other test methods submitted to and approved by the Department.

Reference documents of the test methods approved by the Department include the following:

- a. 40 CFR 60, appendix A
- b. 40 CFR 51, appendix M
- c. The Department's Technical Memorandum 91-01 "Test Methods and Equipment Specifications for Stationary Sources", (January 1991), as amended through Supplement 3, (October 1, 1997)

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8. EMISSIONS CERTIFICATION REPORT

**[COMAR 26.11.01.05-1] and [COMAR 26.11.02.19C] and
[COMAR 26.11.02.19D]**

The Permittee shall certify actual annual emissions of regulated pollutants from the facility on a calendar year basis.

- a. The certification shall be on forms obtained from the Department and submitted to the Department not later than April 1 of the year following the year for which the certification is required;
- b. The individual making the certification shall certify that the information is accurate to the individual's best knowledge. The individual shall be:
 - (1) Familiar with each source for which the certifications forms are submitted, and
 - (2) Responsible for the accuracy of the emissions information;
- c. The Permittee shall maintain records necessary to support the emissions certification including the following information if applicable:
 - (1) The total amount of actual emissions of each regulated pollutant and the total of all regulated pollutants;
 - (2) An explanation of the methods used to quantify the emissions and the operating schedules and production data that were used to determine emissions, including significant assumptions made;
 - (3) Amounts, types and analyses of all fuels used;
 - (4) Emissions data from continuous emissions monitors that are required by this permit, including monitor calibration and malfunction information;
 - (5) Identification, description, and use records of all air pollution control equipment and compliance monitoring equipment including:

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- (a) Significant maintenance performed,
 - (b) Malfunctions and downtime, and
 - (c) Episodes of reduced efficiency of all equipment;
- (6) Limitations on source operation or any work practice standards that significantly affect emissions; and
- (7) Other relevant information as required by the Department.

9. COMPLIANCE CERTIFICATION REPORT

[COMAR 26.11.03.06G(6) and (7)]

The Permittee shall submit to the Department and EPA Region III a report certifying compliance with each term of this Part 70 permit including each applicable standard, emissions limitation, and work practice for the previous calendar year by April 1 of each year.

- a. The compliance certification shall include:
 - (1) The identification of each term or condition of this permit which is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether the compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of each source, currently and over the reporting period; and
 - (5) Any other information required to be reported to the Department that is necessary to determine the compliance status of the Permittee with this permit.
- b. The Permittee shall submit the compliance certification reports to the Department and EPA simultaneously.

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10. CERTIFICATION BY RESPONSIBLE OFFICIAL

[COMAR 26.11.02.02F]

All application forms, reports, and compliance certifications submitted pursuant to this permit shall be certified by a responsible official as to truth, accuracy, and completeness. The Permittee shall expeditiously notify the Department of an appointment of a new responsible official.

The certification shall be in the following form:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

11. SAMPLING AND EMISSIONS TESTING RECORD KEEPING

[COMAR 26.11.03.06C(5)]

The Permittee shall gather and retain the following information when sampling and testing for compliance demonstrations:

- a. The location as specified in this permit, and the date and time that samples and measurements are taken;
- b. All pertinent operating conditions existing at the time that samples and measurements are taken;
- c. The date that each analysis of a sample or emissions test is performed and the name of the person taking the sample or performing the emissions test;
- d. The identity of the Permittee, individual, or other entity that performed the analysis;
- e. The analytical techniques and methods used; and

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- f. The results of each analysis.

12. GENERAL RECORDKEEPING

[COMAR 26.11.03.06C(6)]

The Permittee shall retain records of all monitoring data and information that support the compliance certification for a period of five (5) years from the date that the monitoring, sample measurement, application, report or emissions test was completed or submitted to the Department.

These records and support information shall include:

- a. All calibration and maintenance records;
- b. All original data collected from continuous monitoring instrumentation;
- c. Records which support the annual emissions certification; and
- d. Copies of all reports required by this permit.

13. GENERAL CONFORMITY

[COMAR 26.11.26.09]

The Permittee shall comply with the general conformity requirements of 40 CFR 93, Subpart B and COMAR 26.11.26.09.

14. ASBESTOS PROVISIONS

[40 CFR 61, Subpart M]

The Permittee shall comply with 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility.

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15. OZONE DEPLETING REGULATIONS

[40 CFR 82, Subpart F]

The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for MVACs in subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the prohibitions and required practices pursuant to 40 CFR 82.154 and 82.156.
- b. Equipment used during the maintenance, service, repair or disposal of appliances shall comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- c. Persons performing maintenance, service, repairs or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- d. Persons disposing of small appliances, MVACS, and MVAC-like appliances as defined in 40 CFR 82.152, shall comply with record keeping requirements pursuant to 40 CFR 82.155.
- e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

16. ACID RAIN PERMIT

The Permittee shall comply with the provisions and all applicable requirements of the renewal Phase II Acid Rain Permit, for the affected units that are being issued in conjunction with this permit. See Attached Appendix A.

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SECTION IV PLANT SPECIFIC CONDITIONS

This section provides tables that include the emissions standards, emissions limitations, and work practices applicable to each emissions unit located at this facility. The Permittee shall comply with all applicable emissions standards, emissions limitations and work practices included herein.

The tables also include testing, monitoring, record keeping and reporting requirements specific to each emissions unit. In addition to the requirements included here in **Section IV**, the Permittee is also subject to the general testing, monitoring, record keeping, and reporting requirements included in **Section III – Plant Wide Conditions** of this permit.

Unless otherwise provided in the specific requirements for an emissions unit, the Permittee shall maintain at the facility for at least five (5) years, and shall make available to the Department upon request all records that the Permittee is required under this section to establish. **[Reference: COMAR 26.11.03.06C(5)(g)]**

Table IV – 1	
1.0	<u>Emissions Unit Number(s): HCT-1 & HCT-2: Combustion Turbines</u> HCT-1 & HCT-2: Two (2) General Electric Frame 7F combustion turbines each with a nominal rated capacity of 167 megawatts located at Station H. These combustion turbines fire primarily natural gas and No. 2 fuel oil as a secondary fuel. The units are equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NO_x emissions. [9-0362 & 9-0363]
1.1	<u>Applicable Standards/Limits:</u> A. <u>Control of Visible Emissions</u> COMAR 26.11.09.05 - Visible Emissions. “A. <u>Fuel Burning Equipment.</u> (2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity.

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Table IV – 1	
	(3) <u>Exceptions</u>. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty-minute period.” B. <u>Control of Sulfur Oxides</u> 1. PSD Approval COMAR 26.11.09.07A(2) & CPCN Order No. 68851 Case No. 8063 condition 27 which limits sulfur in fuel content to no more than 0.3% sulfur, by weight. CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits sulfur emissions to <u>34 pounds per hour</u> per combustion turbine when firing natural gas and <u>579 pounds per hour</u> when firing distillate fuel oil. Total annual emissions of SO₂ from the two turbines are limited to <u>1249-tons</u> in any consecutive 12-month period. 2. NSPS Subpart GG 40 CFR §60.333 which limits sulfur in fuel content to 0.8%. <u>Note</u>: Compliance with the COMAR/CPCN sulfur limit will also achieve compliance with the NSPS sulfur limit. 3. Acid Rain Provisions The Permittee shall comply with the requirements of the renewal Phase II Acid Rain Permit issued in conjunction with this Part 70 permit. The Acid Rain Permit is attached to the permit in Appendix A. 4. Cross-State Air Pollution Rule See Table IV-2: CSAPR for requirements C. <u>Control of Nitrogen Oxides</u> 1. NO_x RACT COMAR 26.11.09.08G. - <u>Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less, and Combustion Turbines with a Capacity Factor Greater than 15 Percent.</u> “(1) A person who owns or operates fuel-burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall: (a) Provide certification of the capacity factor of the equipment to the Department in writing;

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Table IV – 1	
	(b) For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually; (c) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request.” (2) A person who owns or operates a combustion turbine with a capacity factor greater than 15 percent shall meet an hourly average NO_x emission rate of not more than 42 ppm when burning gas or 65 ppm when burning oil (dry volume at 15 percent oxygen) or meet applicable Prevention of Significant Deterioration limits, whichever is more restrictive.” 2. PSD Limitation CPCN Order No. 68851 Case No. 8063 condition 15 which limits NO_x emissions to no more than 42 parts per million dry (ppmvd) at 15 percent O₂ when firing natural gas. When firing No. 2 fuel oil, emissions, in ppmvd at 15 percent O₂ will be limited to no more than: 57 for N ≤ 0.015 and 57 + 400N for N > 0.015 where N is the nitrogen content of the fuel in percent by weight. Maximum moisturization will be used to control NO_x emissions from the combustion turbines for Elements I and II. For this purpose, maximum moisturization is defined as the highest practical combustion zone water injection rate that can be used to control the emissions of nitrogen oxides consistent with manufacturer's guarantees. Maximum moisturization, and the resulting NO_x emissions limits have been determined. The results of these tests were submitted to the Maryland Departments of Natural Resources and Environment for approval. At no time will the water to fuel ratio be less than that needed to achieve the following NO_x emissions limits. CPCN Order No. 68851 Case No. 8063 condition 17 and 18 which limits NO_x emissions from each combustion turbine to 321 pounds per hour when firing natural gas and <u>608 pounds per hour</u> when firing distillate fuel oil. Total annual emissions of NO_x from the two turbines are limited to <u>1311-tons per consecutive 12-month period</u>. CPCN Order No. 68851 Case No. 8063 condition 26 which limits the annual average nitrogen content of the fuel oil burned in the combustion turbines to not more than 0.05%, by weight.

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Table IV – 1											
	3. NSPS Subpart GG 40 CFR §60.332 - <u>Standard for nitrogen oxides.</u> “No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere a from any stationary gas turbine, any gases which contain nitrogen oxides in excess of: STD = (0.0075 x (14.4/Y)) + F Where: STD = allowable NO_x emissions (percent by volume at 15 percent oxygen and on a dry basis) Y = manufacturer’s rated heat rate at manufacturer’s rated load (kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour. F = NO_x emission allowance for fuel-bound nitrogen as defined in 40 CFR §60.332(a)(3): <table> <tr> <th>Fuel-Bound Nitrogen (percent by weight)</th><th>F (NO_x percent by volume)</th></tr> <tr> <td>N < 0.015</td><td>0</td></tr> <tr> <td>0.015 < N < 0.1</td><td>0.04(N)</td></tr> <tr> <td>0.1 < N < 0.25</td><td>0.004 + 0.0067(N – 0.1)</td></tr> <tr> <td>N > 0.25</td><td>0.005”</td></tr> </table> 4. Acid Rain Provisions These units are not subject to a NO_x limitation under Acid Rain because they are not coal-fired. However, the Permittee is required to comply with the continuous NO_x monitoring requirement of 40 CFR Part 75 and associated record keeping and reporting requirements. [Reference: Acid Rain Permit, 40 CFR 75 subpart G] 5. Cross-State Air Pollution Rule See Table IV-2: CSAPR for requirements D. <u>Control of Carbon Monoxide</u> PSD Approval CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits carbon monoxide emissions to <u>90 pounds per hour</u> per combustion turbine when firing natural gas and 91 pounds per hour when firing distillate fuel oil. Total annual emissions of carbon monoxide from the two turbines are limited to <u>263-tons</u> per consecutive 12-month period. E. <u>Control of VOC</u> CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits VOC emissions to 2 pounds per hour per combustion turbine when firing	Fuel-Bound Nitrogen (percent by weight)	F (NO _x percent by volume)	N < 0.015	0	0.015 < N < 0.1	0.04(N)	0.1 < N < 0.25	0.004 + 0.0067(N – 0.1)	N > 0.25	0.005”
Fuel-Bound Nitrogen (percent by weight)	F (NO _x percent by volume)										
N < 0.015	0										
0.015 < N < 0.1	0.04(N)										
0.1 < N < 0.25	0.004 + 0.0067(N – 0.1)										
N > 0.25	0.005”										

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Table IV – 1	
	natural gas and 4 pounds per hour when firing distillate fuel oil. Total annual emissions of VOC from the two turbines are limited to 9.2 tons per consecutive 12-month period. F. <u>Control of Particulate Matter</u> PSD Approval CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits PM₁₀ and total particulates emissions 21 pounds per hour per combustion turbine when firing natural gas and 27 pounds per hour when firing distillate fuel oil. Total annual emissions of particulates from the two turbines are limited to 60 tons per consecutive 12-month period. G. <u>Operating Limitation on Fuel Use</u> The combustion turbines shall generate electricity using natural gas only. This requirement shall not apply during those times when the delivered cost per million Btu of natural gas exceeds the delivered cost per million Btu of No. 2 oil by 15 percent or during those times when the natural gas supply to the unit is curtailed or interrupted under the delivery contract during maintenance and repair. At such times, the unit shall use No. 2 oil only. Natural gas service curtailments or interruptions shall be verified by a letter each year from the unit's natural gas supplier identifying the dates on which gas service was restricted. [Reference: CPCN Order #68851 Case No. 8063, Condition 13 and see note under Table IV-1.4 paragraph G – Letter further defining gas curtailment]
1.2	<u>Testing Requirements:</u> A. <u>Control of Visible Emissions:</u> See Monitoring Requirements. B. <u>Control of Sulfur Oxides:</u> The Permittee shall comply with the NSPS fuel oil, gas testing and sampling requirements and Acid Rain Monitoring Requirements. [Reference: 40 CFR §60.334, CPCN 8063 Condition 16, & 40 CFR Appendix B] C. <u>Control of Nitrogen Oxides:</u> 1. NO_x RACT If the gas turbine operates more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion at least once annually. [Reference: COMAR 26.11.09.08G(1)(b)]. If the Permittee operates the engine in excess of 15 percent capacity factor, the

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Table IV – 1	
	Permittee shall demonstrate compliance with the 42-ppm limit (on gas) by performing an EPA Reference Method Test within 120 days after exceeding the 15 percent capacity factor. The Permittee shall submit a test protocol to the Department for approval at least 30 days prior to the proposed test date. [Reference: COMAR 26.11.03.06C]. 2. PSD Limitation The Permittee shall conduct testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. [Reference: 40 CFR 75 Appendix E] <u>Note:</u> The Permittee is required to perform NO_x testing on the two turbines to satisfy the requirements of the Acid Rain Program. The Permittee currently performs testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. The results of this testing will be used to support the demonstration of compliance with NO_x standards and limits of the PSD Approval and NSPS Subpart GG. See quality assurance requirements for the continuous monitoring for NO_x for 40 CFR Part 75- Acid Rain Program. [Reference: Acid Rain Permit, CSAPR, 40 CFR 75 Appendix E] 3. NSPS Subpart GG The Permittee shall conduct testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. [Reference: 40 CFR 75 Appendix E] D. <u>Control of Carbon Monoxide</u> See Monitoring Requirements. E. <u>Control of VOC</u> See Monitoring Requirements. F. <u>Control of Particulate Matter</u> See Monitoring Requirements. G. <u>Operating Limitation on Fuel Use</u> See Record Keeping Requirements.
1.3	<u>Monitoring Requirements:</u> A. <u>Control of Visible Emissions</u> The Permittee shall verify that there are no visible emissions when burning No.2 fuel oil. An observer shall perform an EPA Reference Method 9 observation of stack emissions for 18-minute period at least once every 168 hours of operation on oil or at a minimum once per calendar year.

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	The Permittee shall perform the following, if emissions are visible to human observer: (a) inspect combustion control system and combustion turbine operations, (b) perform all necessary adjustments and/or repairs to the combustion turbine within 48 hours of operation so that visible emissions are eliminated; and (c) document in writing the results of inspections, adjustments and/or repairs to the combustion turbine. (d) after 48 hours of operation, if the required adjustments and/or repairs had not eliminated the visible emissions, the Permittee shall perform a Method 9 observation once daily when combustion turbine is operating for 18 minutes until corrective action have eliminated visible emissions. The requirement for the observation is waived if no fuel oil is burned in the combustion turbines during a calendar year. [Reference: COMAR 26.11.03.06C] B. <u>Control of Sulfur Oxides:</u> 1. PSD Approval & 2. NSPS Subpart GG: The Permittee shall comply with the fuel flow and heat input monitoring requirements. [Reference: 40 CFR 75 Appendix D] C. <u>Control of Nitrogen Oxides:</u> 1. NO_x RACT For engines that operate more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion. The Permittee shall calculate the capacity factor of the engine within 30 days after the end of each month. [Reference: COMAR 26.11.03.06C]. 2. PSD Limitation The Permittee shall monitor the water to fuel ratio for NSPS Subpart GG and operating of PEM under Acid Rain Part 75 requirements. [Reference: 40 CFR §60.334 & 40 CFR 75 Appendix E] 3. NSPS Subpart GG The Permittee shall monitor the water to fuel ratio for NSPS Subpart GG and operating of PEM under Acid Rain Part 75 requirements. [Reference: 40 CFR §60.334 & 40 CFR 75 Appendix E] D. <u>Control of Carbon Monoxide</u> The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they continue to operate as designed. [Reference: COMAR 26.11.03.06C]

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	E. <u>Control of VOC</u> The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they continue to operate as designed. [Reference: COMAR 26.11.03.06C] F. <u>Control of Particulate Matter</u> The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they operate as designed. [Reference: COMAR 26.11.03.06C] G. <u>Operating Limitation on Fuel Use</u> See Record Keeping Requirements.
1.4	<u>Record Keeping Requirements:</u> Note: All records must be maintained for a period of at least 5 years. [Reference: COMAR 26.11.03.06C(5)(g)] A. <u>Control of Visible Emissions</u> The Permittee shall maintain a copy of the visible emissions observations on site for at least five years and make available to the Department upon request. [Reference: COMAR 26.11.03.06C] B. <u>Control of Sulfur Oxides:</u> 1. PSD Approval & 2. NSPS requirement. The Permittee shall maintain file of all measurements of testing and monitoring. [Reference: 40 CFR §60.7(f)] C. <u>Control of Nitrogen Oxides</u> 1. NO_x RACT The Permittee shall maintain the results of the combustion analysis and any stack tests at the site for at least 5 years and make these results available to the Department and the EPA upon request. The Permittee shall maintain records of the calculations of the capacity factors. [Reference: COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C] 2. PSD Limitation The Permittee shall maintain records of test results, analyses of nitrogen content of N of fuel, the water to fuel ratio and hours of operation. [Reference: CPCN Order No. 68851 Case No. 8063 Condition 16 & 26]

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	3. NSPS Subpart GG The Permittee shall maintain records of test results, analyses of nitrogen content of N of fuel, the water to fuel ratio and hours of operation. [Reference: 40 CFR §60.7(f)] D. <u>Control of Carbon Monoxide</u> The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. [Reference: COMAR 26.11.03.06C]. E. <u>Control of VOC</u> The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. [Reference: COMAR 26.11.03.06C]. F. <u>Control of Particulate Matter</u> The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. [Reference: COMAR 26.11.03.06C]. G. <u>Operating Limitation on Fuel Use</u> The Permittee shall maintain records to support the basis for burning fuel oil, either those times when the delivered cost per million Btu of natural gas exceeds the delivered cost per million Btu of No. 2 oil by 15 percent or during those times when the natural gas supply to the unit is curtailed or interrupted under the delivery contract during maintenance and repair. [REFERENCE: CPCN ORDER #68851 CASE NO. 8063 CONDITION 13 & COMAR 26.11.03.06C] <u>Note:</u> The Department, in a February 2, 2006, letter to the company, concurred with the proposal to clarify natural gas curtailments as follows: Gas pipeline is out of service for maintenance or repair. Documentation of these events will be obtained through postings on the gas supplier's web site. Gas supply is interrupted under the delivery contract. Documentation of these events will be obtained through postings on the gas supplier's web site. One or more of the CT Units is called for by PJM to start or extend operation during periods of time when the pipeline operator is not open for business, typically between 6:00 PM and 10:00 AM daily. Dickerson Power will document PJM dispatch notices during these occasions and will

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	purchase gas upon opening of the commercial gas trading market- typically, 10:00 AM, provided the price of delivered gas is not 15% or more of the price of delivered oil. The 15% cost differential between natural gas and #2 fuel oil will be determined on the following basis: Daily publications from the Platts service will be utilized as representative industry benchmarks of natural gas and #2 oil pricing. Dickerson Power will document delivered gas-to-oil cost differential using these benchmarks. The delivered cost of #2 oil for Dickerson Power facilities is calculated by taking the Platts <i>Oilgram</i> New York Harbor Barge price and adding \$0.0564/gallon in delivery charges. The delivered cost of natural gas for Dickerson Power facilities is calculated by taking the Platts <i>Gas Daily</i> Transco Zone 5 South Non-New York price and adding \$0.10/MMBtu for delivery and \$0.22/MMBtu in Park and Loan fees. The delivered prices for #2 oil and natural gas are calculated on a daily basis to determine if the 15% cost differential is met for the current day unit dispatch. CTs allowed to run on oil for test purposes after repairs or maintenance of the fuel oil system and its appurtenances for operability assurance.
1.5	<u>Reporting Requirements:</u> A. <u>Control of Visible Emissions:</u> The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations". [Reference: COMAR 26.11.03.06C] B. <u>Control of Sulfur Oxides:</u> 1. PSD Approval & 2. NSPS Subpart GG: The Permittee shall submit quarterly reports to the Department and the Public Service Commission. [Reference: 40 CFR §60.334(j) & CPCN Order No. 68851 Case No. 8063 condition 28] C. <u>Control of Nitrogen Oxides</u> 1. NO_x RACT The Permittee shall provide certification of the annual capacity factor of the equipment to the Department with the support documentation in the Annual Emission Certification Report. [Reference: COMAR 26.11.09.08G(1)(a) COMAR 26.11.03.06C].

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	2. <u>PSD Limitation</u> In addition to NSPS requirements, Dickerson Power shall also report quarterly to the Maryland Air and Radiation Administration and the Public Service Commission, any one-hour period during which the average water-to-fuel ratio fell below the water-to-fuel ratio used to demonstrate compliance with the NO_x emission concentration limits given in condition No. 15. [Reference: CPCN Order 68851 Case 8063 condition 16 & 28] 3. <u>NSPS Subpart GG</u> The Permittee shall report quarterly to the Department, water-to-fuel ratios, hours of operation (oil and natural gas), fuel N content and total NO_x emissions. [Reference: 40 CFR §60.334] D. <u>Control of Carbon Monoxide</u> The Permittee shall submit records of maintenance to the Department upon request. [Reference: COMAR 26.11.03.06C] E. <u>Control of VOC</u> The Permittee shall submit records of maintenance to the Department upon request. [Reference: COMAR 26.11.03.06C] F. <u>Control of Particulate Matter</u> The Permittee shall submit records of maintenance to the Department upon request. [Reference: COMAR 26.11.03.06C] G. <u>Operating Limitation on Fuel Use</u> Natural gas service curtailments or interruptions shall be verified by a letter each year from the unit's natural gas supplier identifying the dates on which gas service was restricted. [Reference: CPCN Order #68851 Case No. 8063 Condition 13]

“A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above.”

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2.0	<u>Emissions Unit Number(s): HCT-1 and HCT-2: Combustion Turbines</u> <u>Cont'd</u> HCT-1 and HCT-2: Two (2) General Electric Frame 7F combustion turbines each with a nominal rated capacity of 167 megawatts located at Station H. These combustion turbines fire primarily natural gas and No. 2 fuel oil as a secondary fuel. The units are equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NO_x emissions. [9-0362 & 9-0363]
2.1	<u>Applicable Standards/Limits:</u> COMAR 26.11.28.02 - <u>Requirements.</u> A. This chapter incorporates by reference the U.S. EPA CSAPR and the CSAPR Update, including the definitions, criteria, and procedures therein. B. <u>Trading Program Requirements.</u> (1) This chapter incorporates by reference provisions of the CSAPR NO_x Annual Trading Program set forth in 40 CFR Part 97, Subpart AAAAA, as published July 1, 2017, and associated reference methods, performance specifications, and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §97.411(b)(2) and (c)(5)(iii), 97.412(b), and 97.421(h) and (j). (2) This chapter incorporates by reference provisions of the CSAPR NO_x Ozone Season Group 3 Trading Program set forth in 40 CFR Part 97, Subpart EEEEE, as published July 1, 2017, and associated reference methods, performance specifications and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §§97.811(b)(2) and (c)(5)(iii), 97.812(b), and 97.821(h) and (j). (This is superseded by Group 3 Subpart GGGGG published April 30, 2021, effective June 29, 2021). (3) This chapter incorporates by reference provisions of the CSAPR SO₂ Group 1 Trading Program set forth in 40 CFR Part 97, Subpart CCCCC, as published July 1, 2017, and associated reference methods, performance specifications and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §§97.611(b)(2) and (c)(5)(iii), 97.612(b), and 97.621(h) and (j). (4) This chapter incorporates by reference provisions of the CSAPR NO_x Ozone Season Group 3 Trading Program set forth in 40 CFR Part 97, Subpart GGGGG, as published April 30, 2021, and associated reference methods, performance specifications and other test methods referenced

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	by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §§97.1012(b). A. 40 CFR Part 97 Subpart AAAAA—CSAPR NO_x Annual Trading Program §97.406 - Standard requirements. <u>“(a) Designated representative requirements.</u> The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.413 through 97.418. <u>(b) Emissions monitoring, reporting, and recordkeeping requirements.</u> (1) The owners and operators, and the designated representative, of each CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.430 through 97.435. (2) The emissions data determined in accordance with §§97.430 through 97.435 shall be used to calculate allocations of CSAPR NO_x Annual allowances under §§97.411(a)(2) and (b) and 97.412 and to determine compliance with the CSAPR NO_x Annual emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero. <u>(c) NO_x emissions requirements—</u>(1) <u>CSAPR NO_x Annual emissions limitation.</u> (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall hold, in the source's compliance account, CSAPR NO_x Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Annual units at the source. (ii) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Annual units at a CSAPR NO_x Annual source are in excess of the CSAPR NO_x Annual emissions limitation set forth in paragraph (c)(1)(i) of this section, then: (A) The owners and operators of the source and each CSAPR NO_x Annual unit at the source shall hold the CSAPR NO_x Annual allowances required for deduction under §97.424(d); and

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	(B) The owners and operators of the source and each CSAPR NO_x Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (2) <u>CSAPR NO_x Annual assurance provisions.</u> (i) If total NO_x emissions during a control period in a given year from all CSAPR NO_x Annual units at CSAPR NO_x Annual sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x Annual allowances available for deduction for such control period under §97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with §97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_x emissions from all CSAPR NO_x Annual units at CSAPR NO_x Annual sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level. (ii) The owners and operators shall hold the CSAPR NO_x Annual allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period. (iii) Total NO_x emissions from all CSAPR NO_x Annual units at CSAPR NO_x Annual sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total NO_x emissions exceed the sum, for such

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	control period, of the State NO_x Annual trading budget under §97.410(a) and the State's variability limit under §97.410(b). (iv) It shall not be a violation of this subpart or of the Clean Air Act if total NO_x emissions from all CSAPR NO_x Annual units at CSAPR NO_x Annual sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total NO_x emissions from the CSAPR NO_x Annual units at CSAPR NO_x Annual sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level. (v) To the extent the owners and operators fail to hold CSAPR NO_x Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section, (A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and (B) Each CSAPR NO_x Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (3) <u>Compliance periods.</u> (i) A CSAPR NO_x Annual unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under §97.430(b) and for each control period thereafter. (ii) A CSAPR NO_x Annual unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of January 1, 2017, or the deadline for meeting the unit's monitor certification requirements under §97.430(b) and for each control period thereafter. (4) <u>Vintage of CSAPR NO_x Annual allowances held for compliance.</u> (i) A CSAPR NO_x Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a CSAPR NO_x Annual allowance that was allocated or auctioned for such control period or a control period in a prior year. (ii) A CSAPR NO_x Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) of this section for a control period in a given year must be a CSAPR NO_x Annual allowance that was allocated or auctioned for a control period in a prior year or the control period in the given year or in the immediately following year. (5) <u>Allowance Management System requirements.</u> Each CSAPR NO_x Annual allowance shall be held in, deducted from, or transferred into, out

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	of, or between Allowance Management System accounts in accordance with this subpart. (6) <u>Limited authorization</u>. A CSAPR NO_x Annual allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows: (i) Such authorization shall only be used in accordance with the CSAPR NO_x Annual Trading Program; and (ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act. (7) <u>Property right</u>. A CSAPR NO_x Annual allowance does not constitute a property right. (d) <u>Title V permit requirements</u>. (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_x Annual allowances in accordance with this subpart. (2) A description of whether a unit is required to monitor and report NO_x emissions using a continuous emission monitoring system (under subpart H of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.430 through 97.435 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter. (e) <u>Additional recordkeeping and reporting requirements</u>. (1) Unless otherwise provided, the owners and operators of each CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator. (i) The certificate of representation under §97.416 for the designated representative for the source and each CSAPR NO_x Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and

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	documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under §97.416 changing the designated representative. (ii) All emissions monitoring information, in accordance with this subpart. (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_x Annual Trading Program. (2) The designated representative of a CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall make all submissions required under the CSAPR NO_x Annual Trading Program, except as provided in §97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter. (f) <u>Liability.</u> (1) Any provision of the CSAPR NO_x Annual Trading Program that applies to a CSAPR NO_x Annual source or the designated representative of a CSAPR NO_x Annual source shall also apply to the owners and operators of such source and of the CSAPR NO_x Annual units at the source. (2) Any provision of the CSAPR NO_x Annual Trading Program that applies to a CSAPR NO_x Annual unit or the designated representative of a CSAPR NO_x Annual unit shall also apply to the owners and operators of such unit. (g) <u>Effect on other authorities.</u> No provision of the CSAPR NO_x Annual Trading Program or exemption under §97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_x Annual source or CSAPR NO_x Annual unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.” B.40 CFR Part 97 Subpart CCCCC—CSAPR SO₂ Group 1 Trading Program §97.606 - <u>Standard requirements.</u> “(a) <u>Designated representative requirements.</u> The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.613 through 97.618. (b) <u>Emissions monitoring, reporting, and recordkeeping requirements.</u> (1) The owners and operators, and the designated

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	representative, of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.630 through 97.635. (2) The emissions data determined in accordance with §§97.630 through 97.635 shall be used to calculate allocations of CSAPR SO₂ Group 1 allowances under §§97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO₂ Group 1 emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero. <u>(c) SO₂ emissions requirements</u>—(1) <u>CSAPR SO₂ Group 1 emissions limitation</u>. (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO₂ Group 1 allowances available for deduction for such control period under §97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all CSAPR SO₂ Group 1 units at the source. (ii) If total SO₂ emissions during a control period in a given year from the CSAPR SO₂ Group 1 units at a CSAPR SO₂ Group 1 source are in excess of the CSAPR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(i) of this section, then: (A) The owners and operators of the source and each CSAPR SO₂ Group 1 unit at the source shall hold the CSAPR SO₂ Group 1 allowances required for deduction under §97.624(d); and (B) The owners and operators of the source and each CSAPR SO₂ Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (2) <u>CSAPR SO₂ Group 1 assurance provisions</u>. (i) If total SO₂ emissions during a control period in a given year from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's

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	share of such SO₂ emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR SO₂ Group 1 allowances available for deduction for such control period under §97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with §97.625(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such SO₂ emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such SO₂ emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total SO₂ emissions from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level. (ii) The owners and operators shall hold the CSAPR SO₂ Group 1 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period. (iii) Total SO₂ emissions from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total SO₂ emissions exceed the sum, for such control period, of the State SO₂ Group 1 trading budget under §97.610(a) and the State's variability limit under §97.610(b). (iv) It shall not be a violation of this subpart or of the Clean Air Act if total SO₂ emissions from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total SO₂ emissions from the CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level.

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	(v) To the extent the owners and operators fail to hold CSAPR SO₂ Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section, (A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and (B) Each CSAPR SO₂ Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (3) <u>Compliance periods.</u> (i) A CSAPR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under §97.630(b) and for each control period thereafter. (ii) A CSAPR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of January 1, 2017, or the deadline for meeting the unit's monitor certification requirements under §97.630(b) and for each control period thereafter. (4) <u>Vintage of CSAPR SO₂ Group 1 allowances held for compliance.</u> (i) A CSAPR SO₂ Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a CSAPR SO₂ Group 1 allowance that was allocated or auctioned for such control period or a control period in a prior year. (ii) A CSAPR SO₂ Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) of this section for a control period in a given year must be a CSAPR SO₂ Group 1 allowance that was allocated or auctioned for a control period in a prior year or the control period in the given year or in the immediately following year. (5) <u>Allowance Management System requirements.</u> Each CSAPR SO₂ Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart. (6) <u>Limited authorization.</u> A CSAPR SO₂ Group 1 allowance is a limited authorization to emit one ton of SO₂ during the control period in one year. Such authorization is limited in its use and duration as follows: (i) Such authorization shall only be used in accordance with the CSAPR SO₂ Group 1 Trading Program; and (ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such

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	authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act. (7) <u>Property right</u>. A CSAPR SO₂ Group 1 allowance does not constitute a property right. (d) <u>Title V permit requirements</u>. (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR SO₂ Group 1 allowances in accordance with this subpart. (2) A description of whether a unit is required to monitor and report SO₂ emissions using a continuous emission monitoring system (under subpart B of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.630 through 97.635 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter. (e) <u>Additional recordkeeping and reporting requirements</u>. (1) Unless otherwise provided, the owners and operators of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator. (i) The certificate of representation under §97.616 for the designated representative for the source and each CSAPR SO₂ Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under §97.616 changing the designated representative. (ii) All emissions monitoring information, in accordance with this subpart. (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR SO₂ Group 1 Trading Program.

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	(2) The designated representative of a CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall make all submissions required under the CSAPR SO₂ Group 1 Trading Program, except as provided in §97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter. (f) <u>Liability.</u> (1) Any provision of the CSAPR SO₂ Group 1 Trading Program that applies to a CSAPR SO₂ Group 1 source or the designated representative of a CSAPR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO₂ Group 1 units at the source. (2) Any provision of the CSAPR SO₂ Group 1 Trading Program that applies to a CSAPR SO₂ Group 1 unit or the designated representative of a CSAPR SO₂ Group 1 unit shall also apply to the owners and operators of such unit. (g) <u>Effect on other authorities.</u> No provision of the CSAPR SO₂ Group 1 Trading Program or exemption under §97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR SO₂ Group 1 source or CSAPR SO₂ Group 1 unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.” C. 40 CFR Part 97 Subpart GGGGG - CSAPR NO_x Ozone Season Group 3 Trading Program §97.1006 Standard requirements. (a) <u>Designated representative requirements.</u> The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.1013 through 97.1018. (b) <u>Emissions monitoring, reporting, and recordkeeping requirements.</u> (1) The owners and operators, and the designated representative, of each CSAPR NO_x Ozone Season Group 3 source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.1030 through 97.1035. (2) The emissions data determined in accordance with §§97.1030 through 97.1035 shall be used to calculate allocations of CSAPR NO_x Ozone Season Group 3 allowances under §§97.1011(a)(2) and (b) and 97.1012 and to determine compliance with the CSAPR NO_x Ozone

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	Season Group 3 emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§97.1030 through 97.1035 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero. (c) <u>NO_x emissions requirements</u> - (1) <u>CSAPR NO_x Ozone Season Group 3 emissions limitation.</u> (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 3 source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 3 allowances available for deduction for such control period under §97.1024(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 3 units at the source. (ii) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Ozone Season Group 3 units at a CSAPR NO_x Ozone Season Group 3 source are in excess of the CSAPR NO_x Ozone Season Group 3 emissions limitation set forth in paragraph (c)(1)(i) of this section, then: (A) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall hold the CSAPR NO_x Ozone Season Group 3 allowances required for deduction under §97.1024(d); and (B) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (2) <u>CSAPR NO_x Ozone Season Group 3 assurance provisions.</u> (i) If total NO_x emissions during a control period in a given year from all base CSAPR NO_x Ozone Season Group 3 units at base CSAPR NO_x Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the

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	common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x Ozone Season Group 3 allowances available for deduction for such control period under §97.1025(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with §97.1025(b), of multiplying - (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_x emissions from all base CSAPR NO_x Ozone Season Group 3 units at base CSAPR NO_x Ozone Season Group 3 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level. (ii) The owners and operators shall hold the CSAPR NO_x Ozone Season Group 3 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period. (iii) Total NO_x emissions from all base CSAPR NO_x Ozone Season Group 3 units at base CSAPR NO_x Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total NO_x emissions exceed the sum, for such control period, of the State NO_x Ozone Season Group 3 trading budget under §97.1010(a), the State's variability limit under §97.1010(b), and, for the control period in 2021 only, the product (rounded to the nearest allowance) of 1.21 multiplied by the supplemental amount of CSAPR NO_x Ozone Season Group 3 allowances determined for the State under §97.1010(d). (iv) It shall not be a violation of this subpart or of the Clean Air Act if total NO_x emissions from all base CSAPR NO_x Ozone Season Group 3 units at base CSAPR NO_x Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total NO_x emissions from the base CSAPR NO_x Ozone Season Group 3 units at base CSAPR NO_x Ozone Season Group 3 sources in a State (and Indian country within the borders of such State)

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	during a control period exceeds the common designated representative's assurance level. (v) To the extent the owners and operators fail to hold CSAPR NO_x Ozone Season Group 3 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section: (A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and (B) Each CSAPR NO_x Ozone Season Group 3 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (3) <u>Compliance periods.</u> (i) A CSAPR NO_x Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of May 1, 2021, or the deadline for meeting the unit's monitor certification requirements under §97.1030(b) and for each control period thereafter. (ii) A base CSAPR NO_x Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of May 1, 2021, or the deadline for meeting the unit's monitor certification requirements under §97.1030(b) and for each control period thereafter. (4) <u>Vintage of CSAPR NO_x Ozone Season Group 3 allowances held for compliance.</u> (i) A CSAPR NO_x Ozone Season Group 3 allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a CSAPR NO_x Ozone Season Group 3 allowance that was allocated or auctioned for such control period or a control period in a prior year. (ii) A CSAPR NO_x Ozone Season Group 3 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (c)(2)(i) through (iii) of this section for a control period in a given year must be a CSAPR NO_x Ozone Season Group 3 allowance that was allocated or auctioned for a control period in a prior year or the control period in the given year or in the immediately following year. (5) <u>Allowance Management System requirements.</u> Each CSAPR NO_x Ozone Season Group 3 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart. (6) <u>Limited authorization.</u> A CSAPR NO_x Ozone Season Group 3 allowance is a limited authorization to emit one ton of NO_x during the

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	control period in one year. Such authorization is limited in its use and duration as follows: (i) Such authorization shall only be used in accordance with the CSAPR NO_x Ozone Season Group 3 Trading Program; and (ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act. (7) <u>Property right.</u> A CSAPR NO_x Ozone Season Group 3 allowance does not constitute a property right. <u>(d) Title V permit requirements.</u> (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_x Ozone Season Group 3 allowances in accordance with this subpart. (2) A description of whether a unit is required to monitor and report NO_x emissions using a continuous emission monitoring system (under subpart H of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.1030 through 97.1035 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter. <u>(e) Additional recordkeeping and reporting requirements.</u> (1) Unless otherwise provided, the owners and operators of each CSAPR NO_x Ozone Season Group 3 source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator. (i) The certificate of representation under §97.1016 for the designated representative for the source and each CSAPR NO_x Ozone Season Group 3 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond

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	such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under §97.1016 changing the designated representative. (ii) All emissions monitoring information, in accordance with this subpart. (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_x Ozone Season Group 3 Trading Program. (2) The designated representative of a CSAPR NO_x Ozone Season Group 3 source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall make all submissions required under the CSAPR NO_x Ozone Season Group 3 Trading Program, except as provided in §97.1018. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter. (f) <u>Liability.</u> (1) Any provision of the CSAPR NO_x Ozone Season Group 3 Trading Program that applies to a CSAPR NO_x Ozone Season Group 3 source or the designated representative of a CSAPR NO_x Ozone Season Group 3 source shall also apply to the owners and operators of such source and of the CSAPR NO_x Ozone Season Group 3 units at the source. (2) Any provision of the CSAPR NO_x Ozone Season Group 3 Trading Program that applies to a CSAPR NO_x Ozone Season Group 3 unit or the designated representative of a CSAPR NO_x Ozone Season Group 3 unit shall also apply to the owners and operators of such unit. (g) <u>Effect on other authorities.</u> No provision of the CSAPR NO_x Ozone Season Group 3 Trading Program or exemption under §97.1005 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_x Ozone Season Group 3 source or CSAPR NO_x Ozone Season Group 3 unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act. D. 40 CFR Part 97 Subpart EEEEE—CSAPR NO_x Ozone Season Group 2 Trading Program <i>(In accordance with 40 CFR Part 52.38 for the purpose of Part 97 while a stay of the Group 3 Trading Program is in effect, this facility shall be subject to Subpart EEEEE – CSAPR NO_x Ozone Season Group 2 Trading Program)</i> §97.806 - Standard requirements.

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	(a) <u>Designated representative requirements.</u> The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.813 through 97.818. (b) <u>Emissions monitoring, reporting, and recordkeeping requirements.</u> (1) The owners and operators, and the designated representative, of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.830 through 97.835. (2) The emissions data determined in accordance with §§97.830 through 97.835 shall be used to calculate allocations of CSAPR NO_x Ozone Season Group 2 allowances under §§97.811(a)(2) and (b) and 97.812 and to determine compliance with the CSAPR NO_x Ozone Season Group 2 emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero. (c) <u>NO_x emissions requirements</u>—(1) <u>CSAPR NO_x Ozone Season Group 2 emissions limitation.</u> (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under §97.824(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 2 units at the source. (ii) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Ozone Season Group 2 units at a CSAPR NO_x Ozone Season Group 2 source are in excess of the CSAPR NO_x Ozone Season Group 2 emissions limitation set forth in paragraph (c)(1)(i) of this section, then: (A) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold the CSAPR NO_x Ozone Season Group 2 allowances required for deduction under §97.824(d); and (B) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same

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	violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (2) <u>CSAPR NO_x Ozone Season Group 2 assurance provisions.</u> (i) If total NO_x emissions during a control period in a given year from all base CSAPR NO_x Ozone Season Group 2 units at base CSAPR NO_x Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under §97.825(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with §97.825(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_x emissions from all base CSAPR NO_x Ozone Season Group 2 units at base CSAPR NO_x Ozone Season Group 2 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level. (ii) The owners and operators shall hold the CSAPR NO_x Ozone Season Group 2 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period. (iii) Total NO_x emissions from all base CSAPR NO_x Ozone Season Group 2 units at base CSAPR NO_x Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total NO_x emissions exceed the sum, for such control period, of the State NO_x

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	Ozone Season Group 2 trading budget under §97.810(a) and the State's variability limit under §97.810(b). (iv) It shall not be a violation of this subpart or of the Clean Air Act if total NO_x emissions from all base CSAPR NO_x Ozone Season Group 2 units at base CSAPR NO_x Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total NO_x emissions from the base CSAPR NO_x Ozone Season Group 2 units at base CSAPR NO_x Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level. (v) To the extent the owners and operators fail to hold CSAPR NO_x Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section, (A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and (B) Each CSAPR NO_x Ozone Season Group 2 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (3) <u>Compliance periods.</u> (i) A CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under §97.830(b) and for each control period thereafter. (ii) A base CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under §97.830(b) and for each control period thereafter. (4) <u>Vintage of CSAPR NO_x Ozone Season Group 2 allowances held for compliance.</u> (i) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated or auctioned for such control period or a control period in a prior year. (ii) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (c)(2)(i) through (iii) of this section for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated or auctioned

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	for a control period in a prior year or the control period in the given year or in the immediately following year. (5) <u>Allowance Management System requirements.</u> Each CSAPR NO_x Ozone Season Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart. (6) <u>Limited authorization.</u> A CSAPR NO_x Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows: (i) Such authorization shall only be used in accordance with the CSAPR NO_x Ozone Season Group 2 Trading Program; and (ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act. (7) <u>Property right.</u> A CSAPR NO_x Ozone Season Group 2 allowance does not constitute a property right. (d) Title V permit requirements. (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_x Ozone Season Group 2 allowances in accordance with this subpart. (2) A description of whether a unit is required to monitor and report NO_x emissions using a continuous emission monitoring system (under subpart H of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.830 through 97.835 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter. (e) Additional recordkeeping and reporting requirements. (1) Unless otherwise provided, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be

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	extended for cause, at any time before the end of 5 years, in writing by the Administrator. (i) The certificate of representation under §97.816 for the designated representative for the source and each CSAPR NO_x Ozone Season Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under §97.816 changing the designated representative. (ii) All emissions monitoring information, in accordance with this subpart. (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_x Ozone Season Group 2 Trading Program. (2) The designated representative of a CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall make all submissions required under the CSAPR NO_x Ozone Season Group 2 Trading Program, except as provided in §97.818. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter. (f) <u>Liability.</u> (1) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 source or the designated representative of a CSAPR NO_x Ozone Season Group 2 source shall also apply to the owners and operators of such source and of the CSAPR NO_x Ozone Season Group 2 units at the source. (2) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 unit or the designated representative of a CSAPR NO_x Ozone Season Group 2 unit shall also apply to the owners and operators of such unit. (g) <u>Effect on other authorities.</u> No provision of the CSAPR NO_x Ozone Season Group 2 Trading Program or exemption under §97.805 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_x Ozone Season Group 2 source or CSAPR NO_x Ozone Season Group 2 unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.”

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Table IV–2: Cross State Air Pollution Rule (CSAPR)	
2.2	<u>Testing Requirements:</u> A, B, C & D: See Monitoring Requirements.
2.3	<u>Monitoring Requirements:</u> A. 40 CFR Part 97 Subpart AAAAA - CSAPR NO_x Annual Trading Program The Permittee shall comply with the monitoring requirements found in §97.406, §97.430, and §97.434 for the NO_x Annual Trading Program. B. 40 CFR Part 97 Subpart CCCCC - CSAPR SO₂ Group 1 Trading Program The Permittee shall comply with the monitoring requirements found in §97.606, §97.630, §97.631, §97.632, and §97.633. The Permittee operates a monitoring system pursuant to 40 CFR Part 75, Subpart B (for SO₂ monitoring) and 40 CFR Part 75, Subpart H (for NO_x monitoring). C. 40 CFR Part 97 Subpart GGGGG—CSAPR NO_x Ozone Season Group 3 Trading Program The Permittee shall comply with the monitoring requirements found in §97.1006; §97.1030; §97.1031, §97.1032, and §97.1033 for the NO_x Ozone Season Group 3 Trading Program. D. 40 CFR Part 97 Subpart EEEEE—CSAPR NO_x Ozone Season Group 2 Trading Program The Permittee shall comply with the monitoring requirements found in §97.806; §97.830; §97.831, §97.832, and §97.833 for the NO_x Ozone Season Group 2 Trading Program.
2.4	<u>Record Keeping Requirements:</u> <u>Note:</u> All records must be maintained for a period of at least 5 years. [Reference: COMAR 26.11.03.06C(5)(g)] A. 40 CFR Part 97 Subpart AAAAA - CSAPR NO_x Annual Trading Program The Permittee shall comply with the recordkeeping requirements found in §97.406, §97.430, and §97.434 for the NO_x Annual Trading Program. B. 40 CFR Part 97 Subpart CCCCC - CSAPR SO₂ Group 1 Trading Program

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	The Permittee shall comply with the recordkeeping requirements found in §97.606, §97.630, and §97.634. C. 40 CFR Part 97 Subpart GGGGG—CSAPR NO_x Ozone Season Group 3 Trading Program The Permittee shall comply with the recordkeeping requirements found in §97.1006; §97.1030 and §97.1034 for the NO_x Ozone Season Group 3 Trading Program. D. 40 CFR Part 97 Subpart EEEEE—CSAPR NO_x Ozone Season Group 2 Trading Program The Permittee shall comply with the recordkeeping requirements found in §97.806; §97.830 and §97.834 for the NO_x Ozone Season Group 2 Trading Program.
2.5	<u>Reporting Requirements:</u> A. 40 CFR Part 97 Subpart AAAAA - CSAPR NO_x Annual Trading Program The Permittee shall comply with the reporting requirements found in §97.406, §97.430, §97.433 and §97.434 for the NO_x Annual Trading Program. B. 40 CFR Part 97 Subpart CCCCC - CSAPR SO₂ Group 1 Trading Program The Permittee shall comply with the reporting requirements found in §97.606, §97.630, §97.633 and §97.634. C. 40 CFR Part 97 Subpart GGGGG—CSAPR NO_x Ozone Season Group 3 Trading Program The Permittee shall comply with the reporting requirements found in §97.1006; §97.1030 and §97.1034 for the NO_x Ozone Season Group 3 Trading Program. D. 40 CFR Part 97 Subpart EEEEE—CSAPR NO_x Ozone Season Group 2 Trading Program The Permittee shall comply with the reporting requirements found in §97.806; §97.830, §97.833 and §97.834 for the NO_x Ozone Season Group 2 Trading Program.

“A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above.”

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SECTION V INSIGNIFICANT ACTIVITIES

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

- (1) No. 2 Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

The stationary affected units are subject to the following requirements:

- (A) COMAR 26.11.09.05E(2), Emissions During Idle Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.
- (B) COMAR 26.11.09.05E(3), Emissions During Operating Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.
- (C) Exceptions:
 - (i) COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
 - (ii) COMAR 26.11.09.05E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
 - (a) Engines that are idled continuously when not in service: 30 minutes
 - (b) all other engines: 15 minutes.
 - (iii) COMAR 26.11.09.05E(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.
- (D) COMAR 26.11.09.07A(2)(b), which establishes that the Permittee may not burn, sell, or make available for sale

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any distillate fuel with a sulfur content by weight in excess of 0.3 percent.

(2) Containers, reservoirs, or tanks used exclusively for:

- (a) ✓ Storage of butane, propane, or liquefied petroleum, or natural gas;
- (b) No. 6 Storage of lubricating oils;
- (c) No. 1 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;
- (d) No. 1 Storage of motor vehicle gasoline and having individual tank capacities of 2,000 gallons (7.6 cubic meters) or less;
- (e) No. 250 The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;

(3) ✓ Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks display, and kerosene fuel use;

(4) ✓ Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;

(5) Any other emissions unit, not listed in this section, with potential to emit less than the "de minimus" levels listed in COMAR 26.11.02.10X:

- No. 1 125,000 BTU Protemp Portable Kerosene Heater
- No. 2 135,000 BTU Remington 135 Portable Kerosene Heater
- No. 3 140,000 BTU Val 6 Infrared Portable Kerosene Heater
- No. 1 100,000 BTU Thermoheat Portable Kerosene Heater

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SECTION VI STATE-ONLY ENFORCEABLE CONDITIONS

The Permittee is subject to the following State-only enforceable requirements:

Applicable Regulations:

COMAR 26.11.06.08 – Nuisance. “An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be construed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution.”

COMAR 26.11.06.09 - Odors. “A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created.”

Maryland Department of the Environment
Air and Radiation Administration

CO₂ BUDGET TRADING PROGRAM PERMIT

Plant Name: Dickerson Generating Station	
Affected Trading Units: HCT-1 (GT2) and HCT-2 (GT3)	
Owner: Dickerson Power, LLC	ORIS Code 1572
Effective Date _____ 2026 To: October 31, 2031	

Contents:

1. Statement of Basis
2. Table of Affected Units
3. Standard Requirements.
4. The permit application forms submitted for this source.

-
1. Statement of Basis

Statutory and Regulatory Authorities: In accordance with Environmental Article §2-401, Annotated Code of Maryland, the Maryland Department of the Environment, Air and Radiation Administration issues this permit pursuant to COMAR 26.09.01 thru COMAR 26.09.04.

Renewal Permit Approval

Christopher Hoagland, Director
Air and Radiation Administration

Date of Issue

2. Affected Units

Unit ID #	ARA ID #	Unit Description
HCT-1 (GT2)	9-0362	148 MWe (gross-summer) – 168 (gross-winter) dual fuel fired, natural gas primary fuel or No.2 oil fired secondary, simple cycle combustion turbine.
HCT-2 (GT3)	9-0363	148 MWe (gross-summer) – 168 (gross-winter) dual fuel fired, natural gas primary fuel or No.2 oil fired secondary, simple cycle combustion turbine.

3. Standard Requirements:

A. Selection and Responsibilities of CO₂ Budget Source Compliance Account Authorized Account Representatives.

- (1) Each CO₂ budget source shall have a CO₂ authorized account representative and an alternate CO₂ authorized account representative. (COMAR 26.09.01.04B)
- (2) Upon receipt of a complete account certificate of representation:
 - (a) The CO₂ authorized account representative and alternate CO₂ authorized account representative shall represent and, by representations, actions, inactions, or submissions, legally bind each owner or operator of the CO₂ budget source represented and each CO₂ budget unit at the source in all matters pertaining to this subtitle, notwithstanding any agreement between the CO₂ authorized account representative, alternate CO₂ authorized account representative, and the owners or operators; and
 - (b) The owners or operators shall be bound by any decision or order issued to the CO₂ authorized account representative or alternate CO₂ authorized account representative by the Department or a court regarding the CO₂ budget source or unit. (COMAR 26.09.01.04E (1) & (2))
- (3) A CO₂ budget permit may not be issued, or a compliance account established for a CO₂ budget source until the Department has received a complete account certificate of representation for a CO₂ authorized account representative and alternate CO₂ authorized account representative of the source and the CO₂ budget units at the source. (COMAR 26.09.01.04F)
- (4) Each submission shall be signed and certified by the CO₂ authorized account representative or alternate CO₂ authorized account representative on behalf of each CO₂ budget source and shall include the following statement by the CO₂ authorized account representative or alternate CO₂

authorized account representative: "I am authorized to make the submission on behalf of the owners or operators of the CO₂ budget sources or CO₂ budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in the document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
(COMAR 26.09.01.04G)

B. Distribution Of CO₂ Allowances And Compliance

- (1) Unless otherwise specified in this chapter, a CO₂ budget source shall demonstrate compliance with its CO₂ budget emissions limitation by holding one CO₂ allowance in its compliance account for every ton of CO₂ that it emits in a control period, by the allowance transfer deadline for that control period. (COMAR 26.09.02.03I(1))
- (2) As of the CO₂ allowance transfer deadline for an interim control period, the owners and operators of each CO₂ budget source and each CO₂ budget unit at the source shall hold, in the source's compliance account for deduction under §I of this regulation, CO₂ allowances for no less than 50 percent of the total CO₂ emissions for the interim control period from all CO₂ budget units at the source. (COMAR 26.09.02.03I(2))
- (3) Allowances Available for Compliance Deduction. The following CO₂ allowances may be deducted from a compliance account for purposes of complying with a budget source's CO₂ budget emissions limitation for a control period or an interim control period:
 - (a) CO₂ allowances that are not CO₂ offset allowances and are identified as allowances falling within a prior control period, the same control period, or the same interim control period for which the allowances are deducted;
 - (b) CO₂ allowances that are held or transferred into the CO₂ budget source's compliance account as of the CO₂ allowance transfer deadline for that control period or for the interim control period contained within that control period;
 - (c) CO₂ offset allowances that are available to be deducted for compliance during a control period or an interim control period where the quantity of allowances is limited to:
 - (i) 3.3 percent of the CO₂ budget source's CO₂ emissions for that control period; or
 - (ii) 3.3 percent of the CO₂ budget source's CO₂ emissions for an interim control period multiplied by 0.50.(COMAR 26.09.02.03I(3)(a)-(c))

- (4) Deduction of CO₂ allowances:
- (a) The Department shall deduct allowances from the CO₂ budget source's compliance account until:
 - (i) The number of CO₂ allowances deducted equals 50 percent of the total CO₂ emissions for an interim control period; or
 - (ii) The number of CO₂ allowances deducted equals the total CO₂ emissions for the control period.
 - (b) No deduction shall be made for CO₂ emissions attributable to the burning of eligible biomass. (COMAR 26.09.02.03I(4)(a) & (b))
- (5) The identification of available CO₂ allowances for compliance deduction by serial number or by default is as follows:
- (a) The CO₂ authorized account representative for a source's compliance account may request that specific CO₂ allowances, identified by serial number for a control period or interim control period, be deducted; and
 - (b) In the absence of an identification or in the case of a partial identification of available CO₂ allowances by serial number, the Department shall deduct CO₂ allowances for a control period or interim control period in the following descending order:
 - (i) For the first control period, all CO₂ allowances purchased by direct sale from the Department during years 2009, 2010, and 2011 resulting from the occurrence of the \$7 auction clearing price;
 - (ii) All CO₂ allowances for a control period allocated to a CO₂ budget unit from the Long-Term Contract Set-aside Account or the Clean Generation Set-aside Account;
 - (iii) Subject to the relevant compliance deduction limitations identified in §I(3)(c) of this regulation, any CO₂ offset allowances transferred and recorded in the compliance account, in chronological order; and
 - (iv) Any CO₂ allowances, other than those identified in §I(5)(b)(i)—(iii) of this regulation, that are available for deduction in the order they were recorded. (COMAR 26.09.02.03I(5)(a)-(b))
- (6) Deductions for Excess Emissions.
- (a) If a CO₂ budget source has excess emissions, the Department shall deduct, from the CO₂ budget source's compliance account, CO₂ allowances from allocation years that occur after the control period or interim control period in which the excess emissions or excess interim emissions

occurred, equal to three times the excess emissions.

- (b) If a source's compliance account holds insufficient CO₂ allowances to cover the excess emissions, the source shall immediately transfer sufficient allowances into its compliance account.
- (c) CO₂ offset allowances may not be deducted to account for the source's excess emissions.
- (d) No CO₂ allowance deduction shall relieve the owners or operators of the CO₂ budget units at the source of liability for any fine, penalty, assessment or obligation to comply with any other remedy, for the same violation, as ordered under applicable State law.
(COMAR 26.09.02.03I(6)(a)-(d))

(7) Guidelines.

- (a) The following guidelines apply in assessing fines, penalties, or other obligations:
 - (i) For purposes of determining the number of days of violation, if a CO₂ budget unit has excess emissions for a control period or interim control period, each day in the control period or interim control period, as applicable, constitutes a separate day of violation unless the owners or operators of the unit can demonstrate to the satisfaction of the Department that a lesser number of days should be considered; and
 - (ii) The Department shall consider the amount of excess emissions in determining the severity of the violation.
- (b) Each ton of excess interim emissions is a separate violation.
(COMAR 26.09.02.03I(7)(a)-(b))

- (8) If the CO₂ budget source's compliance account no longer exists, the CO₂ allowances shall be deposited in a general account selected by the owner or operator of the CO₂ budget source.
(COMAR 26.09.02.03I(8))

(9) Adjustments and Errors.

- (a) The Department may review and conduct independent audits concerning any submission under this subtitle and make appropriate adjustments to the information, if necessary.
- (b) The Department may correct any error in any account and, within 10 business days of making any correction, notify the CO₂ authorized account representative for the account.
(COMAR 26.09.02.03I(9)(a)-(b))

C. Applicability and Administration

- (1) The requirements of this permit apply to the owner or operator of a CO₂ budget unit. When this permit establishes a requirement such as the submittal of a permit application, a report, a request for allowances or transfer of allowances, or general information, these actions shall be achieved through the authorized account representative on behalf of the owner or operator of the affected CO₂ budget source or unit.
(COMAR 26.09.02.02A)
- (2) The requirements of this subtitle are effective on January 1, 2009 or, for new CO₂ budget units, on the day on which the unit commences operation.
(COMAR 26.09.02.02C).
- (3) The provisions of this permit do not exempt or otherwise relieve the owners or operators of a CO₂ budget source from achieving compliance with any other provision of applicable State and federal laws and regulations.
(COMAR 26.09.02.02D).
- (4) Unless otherwise stated under this subtitle, any time period scheduled to begin:
 - (a) On the occurrence of an act or event, begins on the day the act or event occurs; and
 - (b) Before the occurrence of an act or event, is computed so that the period ends the day before the act or event occurs.
(COMAR 26.09.02.02E)
- (5) Unless otherwise stated, if the final day of any time period for performing an act required by this subtitle falls on a weekend or on a State or federal holiday, the time period is extended until or to the next business day.
(COMAR 26.09.02.02F)

D. Permit Requirements

- (1) The account representative or designate alternate account representative) of each affected unit at a source, (every fossil fuel fired unit with a nameplate capacity of 25 MW or greater) for that source shall comply with the following:
 - (a) The CO₂ authorized account representative for the source shall submit an initial CO₂ budget permit application by October 1, 2008, or 12 months before the date on which the CO₂ budget source, or a new unit at the source, commences operation.
(COMAR 26.09.02.04A(2));
 - (b) The CO₂ budget permit application shall include the following in a format prescribed by the Department: 1) the identification of the CO₂ budget source; 2) plant name and the ORIS (Office of Regulatory Information Systems) or facility code assigned to the source by the Energy Information Administration of the U. S. Department of Energy, if applicable; 3) each CO₂ budget unit at the source; and 4) other information required by the Department.
(COMAR 26.09.02.04A(3))

- (c) A CO₂ authorized account representative for the source shall submit a complete application for the renewal of an existing CO₂ budget permit on forms provided by the Department not later than 90 days before the expiration of the current CO₂ budget permit and in accordance with this regulation.
(COMAR 26.09.02.04E)
- (2) Each CO₂ budget source shall apply for and have in effect a CO₂ budget permit that contains all applicable requirements.
(COMAR 26.09.02.04A(1)).
- (3) The CO₂ budget permit issued by the Department shall be separate but attached to the budget source's Part 70 permit.
(COMAR 26.09.02.04B)
- (4) A CO₂ budget permit expires 5 years from the date of issuance by the Department, unless an earlier expiration date is specified in the permit.
(COMAR 26.09.02.04D)

E. Monitoring, Initial Certification and Recertification Requirements

- (1) For each control period in which a CO₂ budget source is subject to the CO₂ budget emissions limitation, the CO₂ authorized account representative of the source shall submit a compliance certification report by the March 1 following the relevant control period. A compliance certification report is not required as part of the compliance obligation during an interim control period.
(COMAR 26.09.02.05A(1))
- (2) The CO₂ authorized account representative shall include in the compliance certification report the following:
- (a) Identification of the source and each CO₂ budget unit at the source;
 - (b) At the CO₂ authorized account representative's option, the serial numbers of the CO₂ allowances that are to be deducted from the source's compliance account for the control period, including the serial numbers of any CO₂ offset allowances that are to be deducted subject to applicable limitations; and
 - (c) The compliance certification required by §A(3) of COMAR 26.09.02.05.
(COMAR 26.09.02.05A(2))
- (3) In the compliance certification report, the CO₂ authorized account representative shall certify whether the source and each CO₂ budget unit at the source for which the compliance certification is submitted was operated during the control period in compliance with the requirements of this subtitle, including:

- (a) Whether each CO₂ budget unit at the source was operated in compliance with the CO₂ budget emissions limitation;
 - (b) Whether the monitoring plan applicable to each unit at the source: (i) has been maintained to reflect the actual operation and monitoring of the unit; and (ii) contains all information necessary to track CO₂ emissions from the unit;
 - (c) Whether all CO₂ emissions from each unit at the source were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including: (i) whether all conditional data was reported in the quarterly reports; or (ii) if conditional data were reported, whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions have been made;
 - (d) Whether the basis for certification or for using an excepted monitoring method or approved alternative monitoring method has changed; and
 - (e) If a change is required to be reported, include: (i) the nature and reasons for the change; (ii) when the change occurred; and (iii) how the unit's compliance status was determined after the change, including the method used to determine emissions when a change mandated the need for monitor recertification.
(COMAR 26.09.02.05A (3) (a)-(e))
- (4) The Department, at its discretion, may review and conduct independent audits of any compliance certification or other submission required by this permit.
(COMAR 26.09.02.05B(1))
- (5) The Department may deduct CO₂ allowances from, or transfer CO₂ allowances to, a compliance account to correct errors in the account or to accurately reflect CO₂ emissions, based on the information in the compliance certification or other submissions.
(COMAR 26.09.02.05B(2))
- (6) The owner or operator of a CO₂ budget unit shall:
- (a) Install monitoring systems to monitor CO₂ concentration, stack gas flow rate, oxygen concentration, heat input, and fuel flow rate;
 - (b) Install all monitoring systems in accordance with 40 CFR Part 75, except for equation G-1 in Appendix G (see below); and

$$W_{CO_2} = \frac{(MW_C + MW_{O_2}) \times W_C}{2,000 MW_C} \text{ (Eq. G-1)}$$

Where:

W_{CO_2} = CO₂ emitted from combustion, tons/day.

MW_c = Molecular weight of carbon (12.0).

MW_{O_2} = Molecular weight of oxygen (32.0)

W_c = Carbon burned, lb./day, determined using fuel sampling and analysis and fuel feed rates.

- (c) Record, report, and verify the data from the monitoring systems.
(COMAR 26.09.02.10A(1)(a)-(c))
- (7) Install and certify the monitoring system on or before the following dates:
- (a) For a CO₂ budget unit that commences commercial operation before July 1, 2008, the owner or operator shall comply on or before January 1, 2009; and
- (b) For a CO₂ budget unit that commences commercial operation or constructs a new stack or flue on or after July 1, 2008, the owner or operator shall comply by January 1, 2009, or 90 operating days after the date on which the unit commences commercial operation.
(COMAR 26.09.02.10A(1)(d))
- (8) The owner or operator of a CO₂ budget unit that does not meet the applicable compliance date shall, in accordance with the provisions in 40 CFR §75.31(b)(2) or (c)(3), or §2.4 of Appendix D, determine, record, and report maximum potential or, as appropriate, minimum potential for the following:
- (a) CO₂ concentration;
- (b) CO₂ emissions rate;
- (c) Stack gas moisture content;
- (d) Fuel flow rate; and
- (e) Any other parameter required to determine CO₂ mass emissions.
(COMAR 26.09.02.10A(2)(a)-(e))
- (9) The owner or operator of a CO₂ budget unit that does not meet the applicable compliance date for any monitoring system shall determine, record, and report substitute data using the applicable missing data procedures in 40 CFR Part 75 Subpart D, or Appendix D, instead of the maximum potential values or, as appropriate, minimum potential values for a parameter, if the owner or operator demonstrates that there is continuity between the data streams for that parameter before and after the construction or installation.
(COMAR 26.09.02.10A(3))
- (10) An owner or operator of a CO₂ budget unit or a non-CO₂ budget unit monitored under 40 CFR §75.72 (b) (2) (ii) may not:

- (a) Use any alternative monitoring system, alternative reference method, or any other alternative for the required continuous emissions monitoring system without having obtained prior written approval from the Department;
 - (b) Operate the unit so as to discharge, or allow to be discharged, CO₂ emissions to the atmosphere without accounting for all emissions in accordance with the applicable provisions of this chapter and 40 CFR Part 75;
 - (c) Disrupt the operation of the CEMS, any portion of the CEMS, or any other approved emissions monitoring method, and thereby avoid monitoring and recording CO₂ mass emissions discharged into the atmosphere, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed; or
 - (d) Permanently discontinue use of the approved CEMS unless the owner or operator monitors emissions with a system approved in accordance with this chapter and 40 CFR Part 75.
(COMAR 26.09.02.10A(4)(a)-(d))
- (11) For purposes of this subtitle only, the owner or operator of a CO₂ budget unit is exempt from demonstrating compliance with the initial certification requirements of 40 CFR §75.20 for a monitoring system if the following conditions are met:
- (a) The monitoring system has been previously certified in accordance with 40 CFR §75.20; and
 - (b) The applicable quality assurance and quality-control requirements of 40 CFR §75.21 and Appendix B and Appendix D of 40 CFR Part 75 are fully met for the certified monitoring system.
(COMAR 26.09.02.10B(1)(a)-(b))
- (12) The recertification provisions of this regulation apply to a monitoring system exempt from the initial certification requirements of this regulation.
(COMAR 26.09.02.10B(2))
- (13) If the Department has previously approved a petition under 40 CFR §75.72(b)(2)(ii) or 40 CFR §75.16(b)(2)(ii)(B) pursuant to 40 CFR §75.13 for apportioning the CO₂ emissions rate measured in a common stack or a petition under 40 CFR §75.66 for an alternative requirement in 40 CFR Part 75, the CO₂ authorized account representative shall resubmit the petition to the Department to determine whether the approval applies under this chapter.
(COMAR 26.09.02.10B(3))
- (14) The owner or operator of a CO₂ budget unit shall comply with the initial certification and recertification procedures for a CEMS and an excepted monitoring system under 40 CFR Part 75, Appendix D.
(COMAR 26.09.02.10B(4))

- (15) The owner or operator of a unit that qualifies to use the low mass emissions excepted monitoring methodology in 40 CFR §75.19 or that qualifies to use an alternative monitoring system under 40 CFR Part 75, Subpart E, shall comply with this regulation.
(COMAR 26.09.02.10 B(5))
- (16) When the owner or operator replaces, modifies, or changes a CEMS that the Department determines significantly affects the ability of the system to accurately measure or record CO₂ mass emissions or to meet the quality assurance and quality control requirements of 40 CFR §75.21 or Appendix B, the owner or operator shall recertify the monitoring system according to 40 CFR §75.20(b).
(COMAR 26.09.02.10C(1))
- (17) When the owner or operator replaces, modifies, or changes the flue gas handling system or the unit's operation in a manner that the Department determines has significantly changed the flow or concentration profile, the owner or operator shall recertify the CEMS according to 40 CFR §75.20(b).
(COMAR 26.09.02.10C(2))
- (18) Approval Process for Initial Certifications and Recertification. The procedures in 40 CFR §75.20(b)(5) and (g)(7) apply for recertification. The CO₂ authorized account representative shall submit to the Department:
- (a) A written notice of the dates of certification; and
 - (b) A recertification application for each monitoring system, including the information specified in 40 CFR §75.63.
(COMAR 26.09.02.10C(3)(a)-(b))
- (19) Provisional certification data for a monitor shall be:
- (a) Determined in accordance with 40 CFR §75.20(a)(3);
 - (b) A provisionally certified monitor may be used for a period not to exceed 120 days after receipt of the complete certification application for the monitoring system or component; and
 - (c) Data measured and recorded by the provisionally certified monitoring system or component is considered valid quality assured data, retroactive to the date and time of provisional certification, if the Department does not issue a notice of disapproval within 120 days of receipt of the complete certification application.
(COMAR 26.09.02.10C(4)(a)-(c))
- (20) The Department shall issue a written notice of approval or disapproval of the certification application to the owner or operator within 120 days of receipt of the complete certification application.

(COMAR 26.09.02.10D(1))

- (21) If the Department does not issue the notice within the 120-day period, each monitoring system that meets the applicable performance requirements of 40 CFR Part 75 and is included in the certification application shall be deemed certified for use.

(COMAR 26.09.02.10D(2))

- (22) If the certification application is complete and shows that each monitoring system meets the applicable performance requirements of 40 CFR Part 75, the Department shall issue a written notice of approval of the certification application within 120 days of receipt.

(COMAR 26.09.02.10D(3))

- (23) If the certification application is not complete, the Department shall issue a written notice of incompleteness that sets a reasonable date by which the CO₂ authorized account representative is to submit the additional information required to complete the certification application.

(COMAR 26.09.02.10D(4))

- (24) If the CO₂ authorized account representative does not comply with the notice of incompleteness by the specified date, the Department may issue a notice of disapproval.

(COMAR 26.09.02.10D(5))

- (25) If the Department issues a notice of disapproval of a certification application or a notice of disapproval of certification status, the owner or operator shall substitute the following values for each disapproved monitoring system, for each hour of unit operation during the period of invalid data beginning with the date and hour of provisional certification and continuing until the time, date, and hour specified under 40 CFR §75.20(a)(5)(i) or 75.20(g)(7):

- (a) For units using or intending to monitor for CO₂ mass emissions using heat input or for units using the low mass emissions excepted methodology under 40 CFR §75.19, the maximum potential hourly heat input of the unit; or

- (b) For units intending to monitor for CO₂ mass emissions using a CO₂ pollutant concentration monitor and a flow monitor, the maximum potential concentration of CO₂ and the maximum potential flow rate of the unit under 40 CFR Part 75, Appendix A, §2.1.

(COMAR 26.09.02.10 D(6)(a)-(b))

- (26) The CO₂ authorized account representative shall submit a notification of certification retest dates and a new certification application. The owner or operator shall repeat all certification tests or other requirements that were failed by the monitoring system, as indicated in the Department's notice of disapproval, not later than 30 operating days after the date of issuance of the notice of disapproval.

(COMAR 26.09.02.10D(7))

- (27) The owner or operator of a unit qualified to use the low mass emissions excepted methodology under 40 CFR §75.19 shall meet the applicable certification and recertification requirements of 40

CFR §§75.19(a) (2) and 75.20(h).
(COMAR 26.09.02.10E(1))

(28) If the owner or operator of this unit elects to certify a fuel flow meter system for heat input determinations, the owner or operator shall also meet the certification and recertification requirements in 40 CFR §75.20(g).
(COMAR 26.09.02.10E(2))

(29) Certification and Recertification Procedures for Alternative Monitoring Systems. For each unit for which the owner or operator intends to use an alternative monitoring system approved by the Department, 40 CFR Part 75, Subpart E, shall be used to comply with the applicable notification and application procedures of 40 CFR §75.20(f).
(COMAR 26.09.02.10F)

(30) When any monitoring system fails to meet the quality assurance and quality control requirements or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in 40 CFR Part 75, Subpart D, Appendix D.
(COMAR 26.09.02.10G(1))

(31) Audit Decertification.

(a) Whenever both an audit of a monitoring system and a review of the initial certification or recertification application reveal that any monitoring system should not have been certified or recertified because it did not meet a particular performance specification or the applicable provisions of 40 CFR Part 75, both at the time of the initial certification or recertification application submission and at the time of the audit, the Department shall issue a notice of disapproval of the certification status of the monitoring system.

(b) By issuing the notice of disapproval, the certification status of the monitoring system is prospectively revoked.
(COMAR 26.09.02.10G(2))

(32) The data measured and recorded by the monitoring system may not be considered valid quality-assured data from the date of issuance of the notification of the revoked certification status.
(COMAR 26.09.02.10G(3))

F. Record Keeping and Reporting Requirements

(1) The CO₂ authorized account representative shall comply with all record-keeping and reporting requirements in COMAR 26.09.02.10 and the applicable record-keeping and reporting requirements under 40 CFR §75.73.
(COMAR 26.09.02.11A)

(2) The CO₂ authorized account representative shall submit quarterly reports as described below in this

section.

(COMAR 26.09.02.11B(1))

- (3) The report shall contain the CO₂ mass emissions data for the CO₂ budget unit in an electronic format, unless otherwise required by the Department, for each calendar quarter beginning with:
- (a) The calendar quarter covering January 1, 2009 — March 31, 2009, for a unit that commences commercial operation before July 1, 2008; or
 - (b) For a unit commencing commercial operation on or after July 1, 2008, the calendar quarter corresponding to the earlier of the: (i) date of provisional certification; or (ii) applicable deadline for initial certification.
(COMAR 26.09.02.11B(2)(a)-(b))
 - (c) If the quarter is the third or fourth quarter of 2008, reporting shall commence in the quarter covering January 1, 2009 through March 31, 2009.
(COMAR 26.09.02.11B(3))
- (4) The CO₂ authorized account representative shall submit each quarterly report within 30 days following the end of the calendar quarter covered by the report and in accordance with 40 CFR Part 75, Subpart H, §75.64 and 40 CFR Part 75, Subpart G except for the opacity, NO_x and SO₂ provisions.
(COMAR 26.09.02.11B(4))
- (5) The CO₂ authorized account representative shall submit a compliance certification in support of each quarterly report. The certification shall state that:
- (a) The monitoring data submitted were recorded in accordance with the applicable requirements of this chapter and 40 CFR Part 75, including the quality assurance procedures and specifications;
 - (b) For a unit with add-on CO₂ emissions controls and for all hours where data are substituted in accordance with 40 CFR §75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance and quality control program under 40 CFR Part 75, Appendix B, and the substitute values do not systematically underestimate CO₂ emissions; and
 - (c) The CO₂ concentration values substituted for missing data under 40 CFR Part 75, Subpart D, do not systematically underestimate CO₂ emissions.
(COMAR 26.09.02.11B(5)(a)-(c))
- (6) The CO₂ authorized account representative of a CO₂ budget unit may submit a petition to the Department under 40 CFR §75.66 requesting approval to apply an alternative to any requirement of this chapter.
(COMAR 26.09.02.11C)

- (7) The CO₂ authorized account representative or alternate CO₂ authorized account representative of a CO₂ budget unit that burns eligible biomass as a compliance mechanism under this chapter shall report the following information for each calendar quarter:
- (a) For each shipment of solid eligible biomass fuel fired at the CO₂ budget unit:
 - (i) Total eligible biomass fuel input, on an as-fired basis, in pounds; and
 - (ii) The moisture content, on an as-fired basis, as a fraction of weight;
 - (b) For each distinct type of gaseous eligible biomass fuel fired at the CO₂ budget unit:
 - (i) The density of the biogas, on an as-fired basis, in pounds per standard cubic foot; and
 - (ii) The moisture content of the biogas, as a fraction by total weight;
 - (c) For each distinct type of eligible biomass fuel fired at the CO₂ budget unit:
 - (i) The dry basis carbon content of the fuel type, as a fraction by dry weight;
 - (ii) The dry basis higher heating value, in MMBtu per dry pound;
 - (iii) The total dry basis eligible biomass fuel input, in pounds;
 - (iv) The total eligible biomass fuel heat input; and
 - (v) Chemical analysis, including heat value and carbon content;
 - (d) The total amount of CO₂ emitted from the CO₂ budget unit due to firing eligible biomass fuel, in tons, calculated as in §D(2)(b) of this regulation;
 - (e) The total heat input to the CO₂ budget unit due to firing eligible biomass fuel, in MMBtu, calculated below; and
 - (f) Description and documentation of monitoring technology and fuel sampling methodology employed, including sampling frequency.
(COMAR 26.09.02.11 D(1)(a)-(f))
- (8) An owner or operator of a CO₂ budget unit shall calculate and submit on a quarterly basis the total dry weight for each distinct type of eligible biomass fired by the CO₂ budget unit during the reporting quarter:
- (a) For solid eligible biomass fuel, determined as follows:

$$F_j = \sum_{i=1}^m (1 - M_i) \times F_i$$

where:

- (i) F_j = Total eligible biomass dry basis fuel input (pounds) for fuel type j;
- (ii) F_i = Eligible biomass as fired fuel input (pounds) for fired shipment i;
- (iii) M_i = Moisture content (fraction) for fired shipment i;
- (iv) i = fired fuel shipment;
- (v) j = fuel type; and
- (vi) m = number of shipments.

(b) For gaseous eligible biomass fuel, as determined as follows:

$$F_j = D_j \times V_j \times (1 - M_j)$$

where:

- (i) F_j = Total eligible biomass dry basis fuel input (pounds) for fuel type j;
 - (ii) D_j = Density of biogas (pounds/scf) for fuel type j;
 - (iii) V_j = Total volume (scf) for fuel type j;
 - (iv) M_j = Moisture content (fraction) for fuel type j; and
 - (v) j = fuel type
- (COMAR 26.09.02.11D(2)(a)-(b))

(9) The amount of CO₂ emissions that is produced from the firing of eligible biomass for any full calendar quarter, during which either no fuel other than eligible biomass is combusted or during which fuels other than eligible biomass are combusted, is determined as follows:

$$CO_2 \text{ tons} = \sum_{j=1}^n F_j \times C_j \times O_j \left(\frac{44 \left(\frac{g}{mol CO_2} \right)}{12 \left(\frac{g}{mol C} \right)} \right) (0.0005)$$

where:

- (a) CO₂ tons = CO₂ emissions due to firing of eligible biomass for the reporting quarter;
- (b) F_j = Total eligible biomass dry basis fuel input (pounds) for fuel type j, as calculated in §D(2)(a) of this regulation;
- (c) C_j = Carbon fraction (dry basis) for fuel type j;
- (d) O_j = Oxidation factor for eligible biomass fuel type j, derived for solid fuels based on the ash content of the eligible biomass fired and the carbon content of this ash or for gaseous eligible biomass fuels, a default oxidation factor of 0.995 may be used;

$$(e) \frac{44 \left(\frac{g}{molCO_2} \right)}{12 \left(\frac{g}{molC} \right)}$$

= The number of tons of carbon dioxide that are created when one ton of carbon is combusted;

(f) 0.0005 = The number of short tons which is equal to one pound;

(g) j = Fuel type; and

(h) n = number of distinct fuel types.

(COMAR 26.09.02.11D(3))

(10) Heat input due to firing of eligible biomass for each quarter shall be determined as follows:

(a) For each distinct fuel type:

$$H_j = F_j \times HHV_j$$

where:

(i) H_j = Heat input (MMBtu) for fuel type j;

(ii) F_j = Total eligible biomass dry basis fuel input (pounds) for fuel type j;

(iii) HHV_j = Higher heating value (MMBtu/pound), dry basis, for fuel type j, as determined through chemical analysis;

(iv) j = Fuel type.

(b) For all fuel types:

$$HeatInputMMBtu = \sum_{j=1}^n H_j$$

where:

(i) H_j = Heat input (MMBtu) for fuel type j;

(ii) j = fuel type; and

(iii) n = number of distinct fuel types.

Fuel sampling methods and fuel sampling technology shall be consistent with the New York State Renewable Portfolio Standard Biomass Guidebook, September 2011.

(COMAR 26.09.02.11D(4) & D(5))

(11) A CO₂ budget unit shall submit to the Department the megawatt-hour value and a statement certifying that the megawatt-hour of electrical output reported reflects the total actual electrical output for all CO₂ budget units at the facility used by the independent system operator (ISO) to determine settlement resources of energy market participants.

(COMAR 26.09.02.11E(1))

- (12) A CO₂ budget unit shall report gross hourly megawatts to the Department in the same electronic data report (EDR) for gross output as submitted to the EPA Administrator, for the operating time in the hour, added for all hours in a year.
(COMAR 26.09.02.11E(2))
- (13) A CO₂ budget unit shall submit the net electrical output to the Department in accordance with this regulation. A CO₂ budget source whose electrical output is not used in the independent system operator (ISO) energy market settlement determinations shall propose a method for quantification of net electrical output.
(COMAR 26.09.02.11E(3))
- (14) Report of net Steam Output.
- (a) CO₂ budget sources selling steam shall use billing meters to determine net steam output or an alternative method to measure net steam output approved by the Department.
- (b) If data for steam output is not available, the CO₂ budget source may report heat input, substituting useful steam output for steam output.
(COMAR 26.09.02.11E(4)(a)-(b))
- (15) Each CO₂ budget source shall submit an output monitoring plan with a description and diagram that include the following:
- (a) If the CO₂ budget unit monitors net electric output, the diagram shall contain all CO₂ budget units and all generators served by each CO₂ budget unit and the relationship between CO₂ budget units and generators;
- (b) If a generator served by a CO₂ budget unit is also served by a nonaffected unit, the nonaffected unit and its relationship to each generator shall be indicated on the diagram;
- (c) The diagram shall indicate where the net electric output is measured and include all electrical inputs and outputs to and from the plant;
- (d) If net electric output is determined using a billing meter, the diagram shall show each billing meter used to determine net sales of electricity and show that all electricity measured at the point of sale is generated by the CO₂ budget units;
- (e) If the CO₂ budget unit monitors net thermal output, the diagram shall indicate all steam or hot water coming into the net steam system, including steam from CO₂ budget units and nonaffected units, and all exit points of steam or hot water from the net steam system;
- (f) Each input and output stream shall have an estimated temperature, pressure and phase indicator, and an enthalpy in Btu per pound;

- (g) The diagram of the net steam system shall identify all useful loads, house loads, parasitic loads, any other steam loads, and all boiler feedwater returns;
 - (h) The diagram shall represent all energy losses in the system as either usable or unusable losses;
 - (i) The diagram shall indicate all flow meters, temperature or pressure sensors, or other equipment used to calculate gross thermal output; and
 - (j) If a sales agreement is used to determine net thermal output, the diagram shall show the monitoring equipment used to determine the sales of steam.
(COMAR 26.09.02.11F(2)(a)-(j))
- (16) The description of the output monitoring system shall include:
- (a) A written description of the output system and the equations used to calculate output, and, for net thermal output systems, descriptions and justifications of each useful load;
 - (b) A detailed description of all quality assurance and quality control activities that will be performed to maintain the output system; and
 - (c) Documentation supporting any output value to be used as a missing data value if there are periods of invalid output data.
 - (d) The missing data output value shall be either zero or an output value that is likely to be lower than a measured value and approved as part of the required monitoring plan.
(COMAR 26.09.02.11F(3)(a)-(b))
- (17) A certification statement shall be submitted by the CO₂ authorized account representative stating that either:
- (a) The output monitoring system consists entirely of billing meters; or
 - (b) The output monitoring system meets one of the accuracy requirements for nonbilling meters.
(COMAR 26.09.02.11G(1)(a)-(b))
- (18) The billing meter shall record the electric or thermal output. Any electric or thermal output values reported shall be the same as the values used in billing for the output.
(COMAR 26.09.02.11G(2))
- (19) For nonbilling meters, either the output monitoring system shall meet an accuracy of within 10 percent of the reference value, or each component monitor for the output system shall meet an accuracy of within 3 percent of the full scale value, whichever is less stringent.
(COMAR 26.09.02.11G(3))

(20) The system approach to accuracy shall include:

- (a) A determination of how the system accuracy of 10 percent is achieved using the individual components in the system; and
- (b) Data loggers and any wattmeters used to calculate the final net electric output data or any flowmeters for steam or condensate, temperature measurement devices, absolute pressure measurement devices, and differential pressure devices used for measuring thermal energy.
(COMAR 26.09.02.11G(4) (a)-(b))

(21) If, upon testing a piece of output measurement equipment, it is determined that the output readings are not accurate to within 3 percent of the full scale value, then the equipment shall be repaired or replaced to meet that requirement.
(COMAR 26.09.02.11G(5))

(22) Data is invalid until the output measurement equipment passes an accuracy test or is replaced with another piece of equipment that passes the accuracy test.
(COMAR 26.09.02.11G(6))

(23) Ongoing quality assurance and quality control activities shall be performed in order to maintain the output system.
(COMAR 26.09.02.11H(1))

(24) If billing meters are used to determine output, quality assurance and quality control activities are not required beyond what are already performed.
(COMAR 26.09.02.11H(2))

(25) Certain types of equipment such as potential transformers, current transformers, nozzle and venture type meters, and the primary element of an orifice plate only require an initial certification of calibration and do not require periodic recalibration unless the equipment is physically changed.

- (a) Pressure and temperature transmitters accompanying an orifice plate will require periodic retesting.
- (b) For other types of equipment, the meter accuracy shall be recalibrated or verified at least once every 2 years, unless a consensus standard allows for less frequent calibrations or accuracy tests.
- (c) For nonbilling meters, either the output monitoring system shall meet an accuracy of within 10 percent of the reference value, or each component monitor for the output system shall meet an accuracy of within 3 percent of the full scale value, whichever is less stringent.
- (d) If, upon testing a piece of output measurement equipment, it is determined that the output readings are not accurate to within 3 percent of the full scale value, then the equipment shall be

repaired or replaced to meet that requirement.
(COMAR 26.09.02.11 H(3)(a)-(e))

(26) Out-of-Control Periods.

- (a) If, upon testing a piece of output measurement equipment, it is determined that the output readings are not accurate to the certification value, data is invalid until the output measurement equipment passes an accuracy test or is replaced with another piece of equipment that passes the accuracy test.
- (b) All invalid data shall be replaced by either zero or an output value that is likely to be lower than a measured value and that is approved as part of the required monitoring plan.
(COMAR 26.09.02.11 H(4)(a)-(b))

(27) The CO₂ authorized account representative shall submit annual output reports, as follows:

- (a) Data shall be sent both electronically and in hardcopy by March 1 for the immediately preceding calendar year; and
(COMAR 26.09.02.11I 1))

- (28) The annual report shall include unit level megawatt hours, all useful steam output, and a certification statement from the CO₂ authorized account representative stating the following, "I am authorized to make this submission on behalf of the owners and operators of the CO₂ budget sources or CO₂ budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
(COMAR 26.09.02.11I(2))

G. CO₂ Emission Offset Projects

- (1) In order to qualify for the award of CO₂ offset allowances, the following offset projects shall satisfy all applicable requirements identified in COMAR 26.09.03 and initially commence on or after December 20, 2005:
 - (a) Landfill methane capture and destruction;
 - (b) Reduction in emissions of sulfur hexafluoride (SF₆);
 - (c) Sequestration of carbon due to afforestation;

- (d) Reduction or avoidance of CO₂ emissions from natural gas, oil, or propane end-use combustion due to end-use energy efficiency; and
- (e) Avoided methane emissions from agricultural manure management operations.
(COMAR 26.09.03.02A(1)-(5))

4. Permit Application (See Attachment)

Maryland Department of the Environment
Air and Radiation Administration

PHASE II ACID RAIN PERMIT

Plant Name: Dickerson Generating Station	
Affected Units: GT2 (HCT-1) & GT3 (HCT-2)	
Owner: Dickerson Power, LLC	ORIS Code 1572
Effective Date From: _____, 2026	To: October 31, 2031

Contents:

1. Statement of Basis
2. SO₂ Permit Requirements for Each Affected Unit.
9. Comments, Notes, and Justifications Regarding Permit Decisions; Changes Made to Permit Application Forms During the Review Process; Any Additional Requirements or Conditions.

1. Statement of Basis

Statutory and Regulatory Authorities: In accordance with Environmental Article§2-401, Annotated Code of Maryland and Titles IV and V of the Clean Air Act, the Maryland Department of the Environment, Air and Radiation Administration issues this permit pursuant to COMAR 26.11.02 and COMAR 26.11.03.

Phase II Initial Acid Rain Permit: Dickerson Generating Station

2. SO₂ and NO_x Requirements for Each Affected Unit

SO ₂ Requirements	
SO ₂ Allowances for each unit (GT2 and GT3)	Dickerson Power, LLC will hold allowances for each unit in accordance with 40 CFR 72.9(c)(1)

9. Comments, Notes, and Justifications Regarding Decisions; Changes Made to the Permit Application Forms During the Review Process, Any Additional Requirements or Conditions:

Units GT2 and GT3 burn fuel oil or natural gas. Because these units are not coal fired, the nitrogen oxide emissions reduction regulations of 40 CFR Part 76 are not applicable.

Initial Permit Approval

_____ Date of Issuance: _____

Christopher Hoagland, Director
Air and Radiation Administration



October 16, 2025

Ms. Marcie Gurley
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, MD 21230

Subject: Dickerson Power, LLC
Part 70 Operating Permit No. 24-031-2716; AI Number: 169377
Renewal Application Existing Source

Dear Ms. Gurley:

Pursuant to COMAR 26.11.03.02 of Maryland Department of the Environment (Department) code of regulations, Dickerson Power, LLC is submitting the subject application for renewal of the Part 70 Operating Permit 24-031-2716 for the Dickerson Generating Station (Dickerson) issued September 15, 2022, and expiring on October 31, 2026. Concurrently with this submittal, Dickerson Power, LLC is submitting a renewal application for the facility's Acid Rain Permit and requesting renewal of the CO₂ Budget Trading Program Permit.

Pursuant to COMAR 26.11.03.02B and Section II.5 of the facility's Part 70 Operating Permit, Dickerson shall submit a complete application for renewal of the Part 70 operating permit not later than 6 months before the expiration date of the current Part 70 permit except that the Department may require that a complete application for renewal be submitted earlier than 6 months, but not earlier than 12 months, before the expiration date. The Department has determined that the operating permit renewal for Dickerson Power, LLC is due November 1, 2025.

This cover letter provides additional information on the content of the application.

1. Dickerson Generating Station was formerly part of a larger facility owned by GenOn Mid Atlantic, LLC (GenOn). In addition to the previous retirement of three (3) coal fired boilers at the facility, GenOn notified the Department on December 22, 2023, of the permanent retirement of the Pratt and Whitney FT4-A combustion turbine, EU DCT-1, used for black start and peaking service emission. This Title V renewal application therefore does not include EU DCT-1.
2. Dickerson Power, LLC submitted a Part 70 Administrative Amendment on March 25, 2025, to change the responsible official. The renewal application reflects this change.

**Dickerson Power, LLC
21230 Martinsburg Road
Dickerson, MD 20842**

3. This application reflects the correction of the stack height from 218 feet to 130 feet. The stack height at the facility has not changed but has been incorrectly represented in previous applications and permits.
4. Dickerson Power is proposing to update Table IV-2 Section 2.4 G (page 45 of 68) to reflect current source of natural gas pricing, i.e., Platts Gas Daily Transco Zone 6 to Transco Zone 5 South.
5. Pursuant to direction from MDE, Dickerson is including in this application the future applicable requirements for sulfur content per the proposed rule COMAR 26.11.09.07.
6. The applicable requirements under 40 CFR 97 Subpart GGGGG - *NOx Ozone Season Group 3 Trading Program* are currently stayed. In accordance with 40 CFR Part 52.38, for the purposes of Part 97 while a stay of the Group 3 Trading Program is in effect, facilities in Maryland shall be subject to Subpart EEEEE - *NOx Ozone Season Group 2 Trading Program*. Dickerson Power, therefore, has referenced in the application the provisions of both 40 CFR 97 Subpart EEEEE and Subpart GGGGG.
7. As part of this application, Dickerson Power, LLC is updating the physical and correspondence mailing address to 21230 Martinsburg Road.
8. Dickerson Power, LLC had an upstream ownership stock transfer in December 2024. This stock transfer did not affect the owner of the Part 70 Operating Permit which remains as Dickerson Power, LLC.

If there are any questions, please do not hesitate to contact me at Jerry.Simpson@naes.com or 301-601-6528.

Sincerely,



Jerry Simpson
Plant Manager

Ec.: Janay Mendez, MDE
Rachal Havens, Rockland Capital

**Dickerson Power, LLC
21230 Martinsburg Road
Dickerson, MD 20842**

ATTACHMENTS

Dickerson Power, LLC Part 70 Operating Permit Renewal Application Sections 1-7

Attachment A. Checklist of Insignificant Activities

Attachment B. Renewal Application Checklist

Attachment C. Process Flow Diagram

Attachment D. Plot Plan

Attachment E. 2024 Emissions Certifications Report

Attachment F. 2024 Annual Title V Compliance Certification

Attachment G. Emissions Calculations

Attachment H. Acid Rain Permit Application

Attachment I. Red-Line Version of Permit No. 24-031-2716

DICKERSON POWER, LLC PART 70 OPERATING PERMIT RENEWAL APPLICATION

SECTIONS 1-7

PART 70 PERMIT APPLICATION FOR RENEWAL
AIR AND RADIATION ADMINISTRATION

Facilities required to obtain a Part 70 permit under COMAR 26.11.03.01 must complete and return this form. Applications are incomplete unless all applicable information required by COMAR 26.11.03.03 and 26.11.03.13 is supplied. Failure to supply additional information required by the Department to enable it to act on the application may result in loss of the application shield and denial of this application.

Owner and Operator:

Name of Owner or Operator: Dickerson Power, LLC		
Street Address: 21230 Martinsburg Road		
City: Dickerson	State: MD	Zip Code: 20842
Telephone Number: 301-691-6528		Fax Number: NA

Facility Information:

Name of Facility: Dickerson Generating Station		
Street Address: 21230 Martinsburg Road		
City: Dickerson	State: MD	Zip Code: 20842
Plant Manager: Jerry Simpson	Telephone Number: 301-601-6528	Fax Number: NA
24-Hour Emergency Telephone Number for Air Pollution Matters: 301-601-6565		

List, on a separate page, the names and telephone numbers of other facility owners and persons with titles.



SECTION 1. CERTIFICATION STATEMENTS**1. Compliance Status with Applicable Enhanced Monitoring and Compliance Certification Requirements**

The emissions units identified in this application are in compliance with applicable enhanced monitoring and compliance certification requirements.

2. Certification of Current Compliance with All Applicable Federally Enforceable Requirements

Except for the requirements identified in Section 7 of this application, for which compliance is not achieved, I hereby certify, based on information and belief formed after reasonable inquiry, that the facility is currently in compliance with all applicable federally enforceable requirements and agree that the facility will continue to comply with those requirements during the permit term.

You must complete a Section 7 form for each non-complying emissions unit.

3. Statement of Compliance with Respect to All New Applicable Requirements Effective During the Permit Term

I hereby state, based on information and belief formed after reasonable inquiry, that the facility agrees to meet, in a timely manner, all applicable federally enforceable requirements that become effective during the permit term, unless a more detailed schedule is expressly required by the applicable requirement.

4. Risk Management Plan Compliance

I hereby certify that, based on information and belief formed after reasonable inquiry, that a Risk Management Plan as required under 112(r) of the Clean Air Act:

☐ has been submitted.

☐ will be submitted at a future date; or

☒ does not need to be submitted.



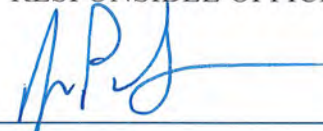
MARYLAND DEPARTMENT OF THE ENVIRONMENT

5. Statement of Truth, Accuracy, and Completeness

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision and in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

RESPONSIBLE OFFICIAL:

X



SIGNATURE

10/15/2025

DATE

Jerry Simpson

PRINTED NAME

Plant Manager

TITLE

SECTION 2. FACILITY DESCRIPTION SUMMARY

1. Major Activities of Facility

Briefly describe the major activities, including the applicable SIC Code(s) and end product(s).

The Dickerson Generating Station (SIC code 4911) is engaged in the generation of electric energy for sale. The major components of the facility consist of two peaking service combustion turbines primarily firing natural gas.

The two combustion turbines manufactured by General Electric are used for peaking capacity. Each is rated at 167 megawatts and fires primarily natural gas and #2 oil as a secondary fuel. Each combustion turbine exhausts through a 130-foot stack.

2. Facility-Wide Emissions

- A. This facility is required to obtain a Part 70 Operating Permit because it is:
Check appropriate box:

- ☒ Actual Major
☐ Potential Major
☐ Solid Waste Incineration Unit Requiring Permit Under § 129(e) of CAA

- B. List the actual facility-wide emissions below: 2024

PM₁₀ 6.22 NO_x 84.24 VOC 2.20 SO_x 1.03 CO 80.93 HAPs 0.96

3. Include With the Application:

Flow Diagrams showing all emissions units, emission points, and control devices.

Emissions Certification Report (copy of the most recent submitted to the Department.)



1. Emissions Unit No.: HCT-1	2. MDE Registration No.:(if applicable) 1518229-0362
1a. Date of installation (month/year): June 1992	
3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): <u>The unit is a General Electric Frame 7F combustion turbine that fires primarily natural gas and #2 fuel oil as a secondary fuel. The combustion turbine is rated at 167 megawatts. The combustion turbine is equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NO_x emissions. The exhaust is directed to a single 130-foot-high stack.</u>	
4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit: General Reference: _____ N/A _____ Continuous Processes: _____ hours/day _____ days/year Batch Processes: _____ hours/batch _____ batches/day _____ days/year	
5. Fuel Consumption:	
Type(s) of Fuel	% Sulfur
1. No. 2 Fuel Oil	0.0138
2. Pipeline Natural Gas	<0.1
3. _____	_____
6. Emissions in Tons:	
a. Actual Major: _____	Potential Major: _____ X _____ (note: before control device)
b. Actual Emissions:	NO _x 51.20 SO _x 0.66 VOC 0.97 PM ₁₀ 3.14 HAPs 0.48



SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: HCT-2 1a. Date of installation (month/year): June 1993	2. MDE Registration No.:(if applicable) 1518229-0363												
3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): <u>The unit is a General Electric Frame 7F combustion turbine that fires primarily natural gas and #2 fuel oil as a secondary fuel. The combustion turbine is rated at 167 megawatts. The combustion turbine is equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NO_x emissions. The turbine exhaust is directed to a single 130-foot-high stack.</u>													
4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit: General Reference: _____ N/A _____ Continuous Processes: _____ hours/day _____ days/year Batch Processes: _____ hours/batch _____ batches/day _____ days/year													
5. Fuel Consumption: <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Type(s) of Fuel</th> <th style="text-align: left;">% Sulfur</th> <th style="text-align: left;">Annual Usage (specify units)</th> </tr> </thead> <tbody> <tr> <td>1. No. 2 Fuel Oil</td> <td>0.0138</td> <td>42,000 gal</td> </tr> <tr> <td>2. Pipeline Natural Gas</td> <td><0.1</td> <td>876,190 Mcf</td> </tr> <tr> <td>3. _____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>		Type(s) of Fuel	% Sulfur	Annual Usage (specify units)	1. No. 2 Fuel Oil	0.0138	42,000 gal	2. Pipeline Natural Gas	<0.1	876,190 Mcf	3. _____	_____	_____
Type(s) of Fuel	% Sulfur	Annual Usage (specify units)											
1. No. 2 Fuel Oil	0.0138	42,000 gal											
2. Pipeline Natural Gas	<0.1	876,190 Mcf											
3. _____	_____	_____											
7. Emissions in Tons: a. Actual Major: _____ Potential Major: _____ X _____ (note: before control device) b. Actual Emissions: NO _x <u>32.90</u> SO _x <u>0.36</u> VOC <u>0.97</u> PM ₁₀ <u>3.06</u> HAPs <u>0.47</u>													



SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ Facility _____ General Reference: COMAR 26.11.06.03D

Briefly describe the Emission Standard/Limit or Operational Limitation:

Permittee shall not cause or permit any building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference COMAR 26.11.01.04C Describe: VEO's using 40 CFR 60 App. A Method 22

Record Keeping: Reference NA Describe: _____

Reporting: Reference NA Describe: _____

Frequency of submittal of the compliance demonstration: Annual



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** COMAR 26.11.07

Briefly describe the Emission Standard/Limit or Operational Limitation:

Permittee shall not cause or permit an open fire from June through August 31 of any calendar year. Prior to any open burning, the Permittee must obtain a permit from the Department.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference NA Describe: _____

Reporting: Reference COMAR 26.11.07.04 Describe: An open burning permit is required.

Frequency of submittal of the compliance demonstration: Annual



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** COMAR 26.11.05.04

Briefly describe the Emission Standard/Limit or Operational Limitation:

When requested by the Department, the Permittee shall prepare in writing standby emissions reduction plans, consistent with good industrial practice and safe operating procedures, for reducing emissions creating air pollution during periods of Alert, Warning, and Emergency of an air pollution episode.

Permit Shield Request: _____ Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference NA Describe: _____

Reporting: Reference COMAR 26.11.05 and 04E Describe: Standby emission reduction plan submitted to the Department if requested.

Frequency of submittal of the compliance demonstration: _____ Annual



SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: Facility General Reference: COMAR 26.11.01.07 and COMAR 26.11.03.06C(7)

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Permittee shall comply with the following conditions for occurrences of excess emissions and deviations from requirements of this permit, including those in Section VI - State-only Enforceable Conditions:

a. Report any deviation from permit requirements that could endanger human health or the environment, by orally notifying the Department immediately upon discovery of the deviation.

b. Promptly report all occurrences of excess emissions that are expected to last for one hour or longer by orally notifying the Department of the onset and termination of the occurrence.

c. When requested by the Department the Permittee shall report all deviations from permit conditions, including those attributed to malfunctions as defined in COMAR 26.11.01.07 A, within 5 days of the request by submitting a written description of the deviation to the Department. The written report shall include the cause, dates and times of the onset and termination of the deviation, and an account of all actions planned or taken to reduce, eliminate, and prevent recurrence of the deviation.

d. The Permittee shall submit to the Department semi-annual monitoring reports that confirm that all required monitoring was performed, and that provide accounts of all deviations from permit requirements that occurred during the reporting periods. Reporting periods shall be January 1 through June 30 and July 1 through December 31, and reports shall be submitted within 30 days of the end of each reporting period. Each account of deviation shall include a description of the deviation, the dates and times of onset and termination, identification of the person who observed or discovered the deviation, causes and corrective actions taken, and actions taken to prevent recurrence. If no deviations from permit conditions occurred during a reporting period, the Permittee shall submit a written report that so states; and

e. When requested by the Department, the Permittee shall submit a written report to the Department within 10 days of receiving the request concerning an occurrence of excess emissions. The report shall contain the information required in COMAR 26.11.01.07D(2).

Permit Shield Request: Yes



Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: X

Methods used to demonstrate compliance:	
Monitoring: Reference <u> NA </u>	Describe: _____
Testing: Reference <u> NA </u>	Describe: _____
Record Keeping: Reference <u> NA </u>	Describe: _____
Reporting: Reference <u> COMAR 26.11.01.07D and 26.11.01.07A </u> Describe: <u> Information required to report occurrences of excess emissions. </u>	

Frequency of submittal of the compliance demonstration: Annual and Semi-Annual



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** COMAR 26.11.03.03 B(23) and 40 CFR 68

Briefly describe the Emission Standard/Limit or Operational Limitation:

Should the Permittee become subject to 40 CFR 68 during the term of this permit, the Permittee shall submit risk management plans by the date specified in 40 CFR 68.150 and shall certify compliance with the requirements of 40 CFR 68 as part of the annual compliance certification as required by 40 CFR 70.

The Permittee shall initiate a permit revision or reopening according to the procedures of 40 CFR 70.7 to incorporate appropriate permit conditions into the Permittee's Part 70 permit.

Permit Shield Request: _____ Yes _____

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: NA
- Annual Compliance Certification: NA
- Semi-Annual Monitoring Report: NA

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference NA Describe: _____

Reporting: Reference 40 CFR 70.7 Describe: Initiate Permit revision if applicable.

Frequency of submittal of the compliance demonstration: As required



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** COMAR 26.11.01.04

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Department may require the Permittee to conduct, or have conducted, testing to determine compliance with this Part 70 permit. The Department, at its option, may witness or conduct these tests. This testing shall be done at a reasonable time, and all information gathered during a testing operation shall be provided to the Department.

Permit Shield Request: _____ Yes _____

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference NA Describe: _____

Reporting: Reference COMAR 26.11.05 and 04 Describe: Compliance test reports submitted to the Department.

Frequency of submittal of the compliance demonstration: _____ Annual



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** COMAR 26.11.01.04

Briefly describe the Emission Standard/Limit or Operational Limitation:

Compliance with the emissions standards and limitations in this Part 70 permit shall be determined by the test methods designated and described below or other test methods submitted to and approved by the Department.

Reference documents of the test methods approved by the Department include the following:

a. 40 CFR 60, Appendix A

b. 40 CFR 51, Appendix M

c. The Department's Technical Memorandum 91-01 "Test Methods and Equipment Specifications for Stationary Sources", (January 1991), as amended through Supplement 3, (October 1, 1997).

Permit Shield Request: _____ Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: X

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference NA Describe: _____

Reporting: Reference COMAR 26.11.01.04 Describe: Testing reports submitted to the Department.

Frequency of submittal of the compliance demonstration: As required



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ Facility _____ General Reference: COMAR 26.11.01.05-1,
COMAR 26.11.02.19C, and
COMAR 26.11.02.19D

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Permittee shall certify actual annual emissions of regulated pollutants from the facility on a calendar year basis.

a. The certification shall be on forms obtained from the Department and submitted to the Department not later than April 1 of the year following the year for which the certification is required.

b. The individual making the certification shall certify that the information is accurate to the individual's best knowledge. The individual shall be:

(1) Familiar with each source for which the certifications forms are submitted, and

(2) Responsible for the accuracy of the emissions information.

c. The Permittee shall maintain records necessary to support the emissions certification including the following information if applicable:

(1) The total amount of actual emissions of each regulated pollutant and the total of all regulated pollutants.

(2) An explanation of the methods used to quantify the emissions and the operating schedules and production data that were used to determine emissions, including significant assumptions made.

(3) Amounts, types, and analyses of all fuels used.

(4) Emissions data from continuous emissions monitors that are required by this permit, including monitor calibration and malfunction information.

(5) Identification, description, and use records of all air pollution control equipment and compliance monitoring equipment including:

(a) Significant maintenance performed,

(b) Malfunctions and downtime, and

(c) Episodes of reduced efficiency of all equipment.

(6) Limitations on source operation or any work practice standards that significantly affect emissions; and

(7) Other relevant information as required by the Department.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____



Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference COMAR 26.11.01.05-1 Describe: Information for calculation of
emission statement.

Reporting: Reference COMAR 26.11.02.19C and D Describe: Emission statement submitted to the
Department by April 1 of each year.

Frequency of submittal of the compliance demonstration: Annual



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** COMAR 26.11.03.06G(6) and (7)

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Permittee shall submit to the Department and EPA Region III a report certifying compliance with each term of this Part 70 permit including each applicable standard, emissions limitation, and work practice for the previous calendar year by April 1 of each year. a. The compliance certification shall include:

(1) The identification of each term or condition of this permit which is the basis of the certification;

(2) The compliance status;

(3) Whether the compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of each source, currently and over the reporting period; and

(5) Any other information required to be reported to the Department that is necessary to determine the compliance status of the Permittee with this permit. b. The Permittee shall submit the compliance certification reports to the Department and EPA simultaneously.

Permit Shield Request: _____ Yes _____

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference COMAR 26.11.03.06G(6) Describe: Five-year record keeping requirement.

Reporting: Reference COMAR 26.11.03.06G(6) and (7) Describe: Submit certification report to EPA and the Department by April 1 of each year.

Frequency of submittal of the compliance demonstration: _____ Annual



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** COMAR 26.11.02.02F

Briefly describe the Emission Standard/Limit or Operational Limitation:

All application forms, reports, and compliance certifications submitted pursuant to this permit shall be certified by a responsible official as to truth, accuracy, and completeness. The Permittee shall expeditiously notify the Department of an appointment of a new responsible official. The certification shall be in the following form: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Permit Shield Request: _____ Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: X
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: X

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference NA Describe: _____

Reporting: Reference COMAR 26.11.02.02F Describe: Certification by responsible official of all applications, reports, and compliance certifications submitted to the Department.

Frequency of submittal of the compliance demonstration: Quarterly, Semi-Annual, Annual



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** COMAR 26.11.03.06C(5)

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Permittee shall gather and retain the following information when sampling and testing for compliance demonstrations:

- a. The location as specified in this permit, and the date and time that samples and measurements are taken.
- b. All pertinent operating conditions existing at the time that samples and measurements are taken.
- c. The date that each analysis of a sample or emissions test is performed and the name of the person taking the sample or performing the emissions test.
- d. The identity of the Permittee, individual, or other entity that performed the analysis.
- e. The analytical techniques and methods used; and
- f. The results of each analysis.

Permit Shield Request: _____ Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: X

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference NA Describe: _____

Reporting: Reference COMAR 26.11.03.06C(5) Describe: Testing reports to be submitted to the Department.

Frequency of submittal of the compliance demonstration: Semi-Annual, Annual



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** COMAR 26.11.03.06C(6)

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Permittee shall retain records of all monitoring data and information that support the compliance certification for a period of five (5) years from the date that the monitoring, sample measurement, application, report, or emissions test was completed or submitted to the Department. These records and support information shall include:

a. All calibration and maintenance records.

b. All original data collected from continuous monitoring instrumentation.

c. Records which support the annual emissions certification; and

d. Copies of all reports required by this permit.

Permit Shield Request: _____ Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference COMAR 26.11.03.06C(5)(g) Describe: Five-year recordkeeping requirement.

Reporting: Reference NA Describe: _____

Frequency of submittal of the compliance demonstration: _____ Annual



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** COMAR 26.11.26.09

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Permittee shall comply with the general conformity requirements of 40 CFR 93, Subpart B and COMAR 26.11.26.09.

Permit Shield Request: _____ Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference NA Describe: _____

Reporting: Reference 40 CFR 93 Subpart B and COMAR 26.11.26.09 Describe: Facility must comply with general conformity requirements.

Frequency of submittal of the compliance demonstration: _____ Annual



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** 40 CFR 61, Subpart M

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Permittee shall comply with 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility.

Permit Shield Request: _____ Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference NA Describe: _____

Reporting: Reference 40 CFR 61.145B Describe: Asbestos removal notification requirements

Frequency of submittal of the compliance demonstration: _____ Annual



SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ Facility _____ General Reference: 40 CFR 82, Subpart F

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for MVACs in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the prohibitions and required practices pursuant to 40 CFR 82.154 and 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

c. Persons performing maintenance, service, repairs, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.

d. Persons performing maintenance, service, repairs, or disposal of appliances shall certify with the Administrator pursuant to 40 CFR 82.162.

e. Persons disposing of small appliances, MVACs, and MVAC-like appliances as defined in 40 CFR 82.152, shall comply with record keeping requirements pursuant to 40 CFR 82.166.

f. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.

g. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

Permit Shield Request: _____ Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____



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Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference 40 CFR 82.166 Describe: Certification of technicians and documentation of service records

Reporting: Reference NA Describe: _____

Frequency of submittal of the compliance demonstration: Annual



SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: _____ **Facility** _____ **General Reference:** 40 CFR 72

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Permittee shall comply with the provisions and all applicable requirements of the renewal Phase II Acid Rain Permit, for the affected units that are being issued in conjunction with this permit.

Permit Shield Request: _____ Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference NA Describe: _____

Reporting: Reference 40 CFR 72 Describe: In unit specific requirements as determined applicable.

Frequency of submittal of the compliance demonstration: Annual



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SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 **General Reference:** 40 CFR 72-76

Briefly describe the Emission Standard/Limit or Operational Limitation:

Phase II Acid Rain Program. Permittee shall hold SO₂ allowances for each affected unit. See Acid Rain Permit Application renewal.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: X
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: X

Methods used to demonstrate compliance:

Monitoring: Reference 40 CFR 75.11-14 Describe: Equations in 40 CFR App D for SO₂

Testing: Reference 40 CFR 75.20 and 21 Describe: 40 CFR Part 75 monitoring procedures

Record Keeping: Reference 40 CFR 75.50, 51, and 21 Describe: 40 CFR 75 recordkeeping procedures

Reporting: Reference 40 CFR 75.60-65 Describe: Quarterly reporting requirements.

Frequency of submittal of the compliance demonstration: Quarterly, Semi-Annual, Annual



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SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 General Reference: 40 CFR 97

Briefly describe the Emission Standard/Limit or Operational Limitation:

CSAPR requires SO₂ and NO_x allowances must be held annually and NO_x allowances held for ozone season. Part 75 Monitoring system required for monitoring for NO_x and SO₂. HCT-1 and HCT-2 are subject to CSAPR Subpart AAAAA – NO_x Annual Trading Program, Subpart CCCCC – SO₂ Group 1 Trading Program, Subpart GGGGG – NO_x Ozone Season Group 3 Trading Program (except that in accordance with 40 CFR Part 52.38 for the purposes of Part 97 while a stay of the Group 3 Trading Program is in effect, facilities in Maryland shall be subject to Subpart EEEEE – NO_x Ozone Season Group 2 Trading Program).

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: X
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: X

Methods used to demonstrate compliance:

Monitoring: Reference 40 CFR 97.406, 97.430, 97.432, 97.433, 97.606, 97.630, 97.632, 97.633, 97.806, 97.830, 97.832, and 97.833, 97.1006, 97.1030, 97.1032, 97.1033 Describe: Part 75 Monitoring system for NO_x and SO₂.

Testing: Reference 40 CFR 97.431, 97.631, 97.831, 97.1031 Describe: Part 75 Monitoring System certification and re-certification of QA/QC procedures.

Record Keeping: Reference 40 CFR 97.406, 97.430, 97.434, 97.606, 97.630, 97.634, 97.806, 97.830, and 97.834, 97.1003, 97.1030, 97.1034 Describe: Part 75 Monitoring System recordkeeping requirements.

Reporting: Reference 40 CFR 97.430, 97.433, 97.434, 97.630, 97.633, 97.634, 97.830, 97.833, and 97.834 Describe: Quarterly reporting requirements.

Frequency of submittal of the compliance demonstration: Quarterly, Semi-Annual, Annual



SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 **General Reference:** 40 CFR 98, COMAR 26.09.01 to 26.09.04

Briefly describe the Emission Standard/Limit or Operational Limitation:

Permittee shall monitor and report actual annual greenhouse gas emissions in accordance with 40 CFR 98. Report to EPA electronically by March 31 of following year.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: X
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: X

Methods used to demonstrate compliance:

Monitoring: Reference 40 CFR 98, COMAR 26.09.02.10 Describe: PEMs requirements.

Testing: Reference 40 CFR 98, COMAR 26.09.02.10 Describe: Required EM certification, re-certification, and QA/QC procedures.

Record Keeping: Reference 40 CFR 98, COMAR 26.09.02.11 Describe: CEM recordkeeping Requirements.

Reporting: Reference 40 CFR 98, COMAR 26.09.02.11 Describe: Quarterly reporting requirements.

Frequency of submittal of the compliance demonstration: Quarterly, Semi-Annual, Annual



SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 General Reference: COMAR 26.11.09.07A(2) and CPCN Order No. 68851 Case No. 8063

Briefly describe the Emission Standard/Limit or Operational Limitation:

Distillate fuel oil must be less than or equal to 0.3 % sulfur content

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference COMAR 26.11.03.06C Describe: Fuel supplier certification of sulfur content.

Record Keeping: Reference COMAR 26.11.03.06 C Describe: Five-year recordkeeping requirement.

Reporting: Reference COMAR 26.11.03.06 C Describe: Annual reporting requirements.

Frequency of submittal of the compliance demonstration: Annual



SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 General Reference: COMAR 26.11.09.07

Briefly describe the Emission Standard/Limit or Operational Limitation:

Effective 1/1/2026 Distillate fuel oil must be less than or equal to 0.0015 % sulfur content

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference COMAR 26.11.03.06C Describe: Fuel supplier certification of sulfur content.

Record Keeping: Reference COMAR 26.11.03.06 C Describe: Five-year recordkeeping requirement.

Reporting: Reference COMAR 26.11.03.06 C Describe: Annual reporting requirements.

Frequency of submittal of the compliance demonstration: Annual



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SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 **General Reference:** COMAR 26.11.09.08G

Briefly describe the Emission Standard/Limit or Operational Limitation:

- (1) NO_x RACT for fuel burning equipment with capacity factor of 15 % or less and CTs with a capacity factor greater than 15%.
 - a. Provide certification of the capacity factor of the equipment to the Department in writing.
 - b. Fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis.
 - c. Maintain records of analysis for two years.
 - d. Operator of an installation, except CTs to attend operator training programs at least once every 3 years; and
 - e. Maintain records of training program attendance for each operator at the site and make available to Department upon request.
- (2) A CT with a capacity factor greater than 15 percent shall meet the NO_x emission rate of 42 ppm when burning natural gas and 65 ppm when burning oil.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report:
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report:

Methods used to demonstrate compliance:

Monitoring: Reference COMAR 26.11.09.08G(1) Describe: Track capacity factor, capacity factor greater than 15% trigger monitoring requirements.

Testing: Reference COMAR 26.11.09.08G(1)(b) Describe: Combustion analysis and optimize.

Record Keeping: Reference COMAR 26.11.09.08G(1)(c) and .03.06C Describe: Maintain records on-site for 5-years.

Reporting: Reference COMAR 26.11.09.08G(1)(a) Describe: Provide capacity factor as part of the emission statement by April 1 of each year.

Frequency of submittal of the compliance demonstration: Annual



SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 **General Reference:** CPCN 8063 Conditions 15, 17, 18 and 26

Briefly describe the Emission Standard/Limit or Operational Limitation:

HCT-1 and 2 NO_x emissions rate burning natural gas is 42 ppmvd at 15% O₂. For number 2 fuel oil: 57 ppmvd for N ≤ 0.015; 57 + 400N for N > 0.015 at 15% ppmvd; N is the nitrogen content of #2 fuel oil in percent by weight.

NO_x emission rate on natural gas: 321 lb/hr, on oil: 608 lb/ hr, and 1,311 tons per consecutive 12-month period.

Annual average of nitrogen content of fuel oil cannot be greater than 0.05% by weight.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: X
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: X

Methods used to demonstrate compliance:

Monitoring: Reference 40 CFR 60.334 Subpart GG, 40 CFR 75 Appendix E Describe: Monitoring of water to fuel ratios for NSPS and operating of PEM under Acid Rain Part 75 requirements.

Testing: Reference 40 CFR 75 Appendix E Describe: Testing every 5 years.

Record Keeping: Reference CPCN 8063 Conditions 16 and 23 Describe: Maintain records of test results, analyses of N of fuel, water to fuel ratios and hours of operation.

Reporting: Reference CPCN 8063 Conditions 16 and 28 Describe: Quarterly reporting of water to fuel ratios, hours of operation (oil and natural gas), fuel N content, and total NO_x emissions.

Frequency of submittal of the compliance demonstration: Annual and Quarterly



SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 **General Reference:** NSPS 40 CFR 60.332 Subpart GG

Briefly describe the Emission Standard/Limit or Operational Limitation:

No owner or operator shall discharge from a stationary combustion turbine, any gases which contain nitrogen oxides in excess of: $STD = (0.0075 \times (14.4/Y) + F$ Where: STD = allowable NO_x emissions (percent by volume) at 15 percent O₂ dry, Y =manufacturer's rated heat rate at manufacturer's rated load.

F= NO_x emission allowance for fuel bound nitrogen.

<u>Fuel Bound Nitrogen (by weight)</u>	<u>F (NO_x percent by volume)</u>
<u>N≤0.015</u>	<u>0.0</u>
<u>0.015<N≤0.1</u>	<u>0.4(N)</u>
<u>0.1<N≤0.25</u>	<u>0.004 + 0.0067(N - 0.1)</u>
<u>N>0.25</u>	<u>0.005</u>

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: X
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report:

Methods used to demonstrate compliance:

Monitoring: Reference: NSPS 40 CFR 60.334 Subpart GG, 40 CFR 75 Appendix E Describe:

Monitoring of water to fuel ratios for NSPS and operating of PEM under Acid Rain Part 75 requirement.

Testing: Reference 40 CFR 75 Appendix E Describe: Testing every 5 years.

Record Keeping: Reference 40 CFR 60.7(f) Describe: Maintain records of test results, analysis of N of fuel, water to fuel ratios and hours of operation.

Reporting: Reference NSPS 40 CFR 60.334 Describe: Quarterly reporting of water to fuel ratios, hours of operation (oil and gas), Fuel N content and total NO_x emissions.

Frequency of submittal of the compliance demonstration: Annual and quarterly



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 **General Reference:** COMAR 26.11.09.07A(2), CPCN 8063 Conditions 17, 18, and 27; NSPS 40 CFR Subpart GG

Briefly describe the Emission Standard/Limit or Operational Limitation:

Limits #2 fuel oil sulfur content to 0.3%, NSPS limits #2 fuel oil to 0.8% sulfur content, and SO₂ emissions limited to 579 lbs/hr when burning oil and 34 lbs/hr when burning natural gas. Annual emission of SO₂ limit to 1,249 tons in any consecutive 12-month period.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: X
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: X

Methods used to demonstrate compliance:

Monitoring: Reference 40 CFR 75 Appendix D Describe: Fuel flow and heat input monitoring requirements.

Testing: Reference 40 CFR 60.334, CPCN 8063 Condition 16, 40 CFR 75 Appendix B Describe: NSPS fuel oil, gas testing and sampling requirements, and Acid Rain monitoring requirements.

Record Keeping: Reference 40 CFR 60.7(f) Describe: Maintain file of all measurements of testing and monitoring.

Reporting: Reference 40 CFR 60.334(j), CPCN 8063 Condition 28 Describe: Quarterly reporting requirements.

Frequency of submittal of the compliance demonstration: Annual and Quarterly



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SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 **General Reference:** CPCN 8063 Conditions 17 and 18

Briefly describe the Emission Standard/Limit or Operational Limitation:

Each CT's carbon monoxide emissions are limited to 91 lb/hr when burning oil and 90 lb/hr when burning natural gas and annual emissions limited to 263 tons in any consecutive 12-month period.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference COMAR 26.11.03.06C Describe: Perform preventative maintenance to maintain the CT in a manner such that they continue to operate as designed.

Testing: Reference NA Describe: _____

Record Keeping: Reference COMAR 26.11.03.06C Describe: Maintain 5 years of preventative maintenance records that relate to combustion performance.

Reporting: Reference COMAR 26.11.03.06C Describe: Shall submit records to Department upon request.

Frequency of submittal of the compliance demonstration: Annual



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SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 **General Reference:** CPCN 8063 Conditions 17 and 18

Briefly describe the Emission Standard/Limit or Operational Limitation:

Each CT's VOC emissions are limited to 4 lb/hr when burning oil and 2 lb/hr when burning natural gas and annual emissions limited to 9.2 tons in any consecutive 12-month period.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference COMAR 26.11.03.06C Describe: Shall perform preventative maintenance to maintain the CT in a manner such that they continue to operate as designed.

Testing: Reference NA Describe: _____

Record Keeping: Reference COMAR 26.11.03.06C Describe: Maintain 5 years of preventative maintenance records that relate to combustion performance.

Reporting: Reference COMAR 26.11.03.06C Describe: Submit records to Department upon request.

Frequency of submittal of the compliance demonstration: Annual



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SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: HCT-1 and 2 **General Reference:** CPCN 8063 Conditions 17 and 18

Briefly describe the Emission Standard/Limit or Operational Limitation:

Each CT's total particulate matter and PM₁₀ emissions are limited to 27 lbs/hr when burning oil and 21 lb/hr when burning natural gas and annual emissions limited to 60 tons in any consecutive 12-month period.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- Quarterly Monitoring Report: _____
- Annual Compliance Certification: X
- Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference COMAR 26.11.03.06C Describe: Shall perform preventative maintenance to maintain the CT in a manner such that they continue to operate as designed.

Testing: Reference NA Describe: _____

Record Keeping: Reference COMAR 26.11.03.06C Describe: Maintain 5 years of preventative maintenance records that relate to combustion performance.

Reporting: Reference <u>COMAR 26.11.03.06C</u>	Describe: <u>Submit records to Department upon request.</u>
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Frequency of submittal of the compliance demonstration: Annual



SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS



**SECTION 3C. OBSOLETE, EXTRANEIOUS, OR INSIGNIFICANT PERMIT
CONDITIONS**

List permit to construct conditions which should be considered to be obsolete, extraneous, or environmentally insignificant.

Emissions Unit No.: DCT-1

Permit to Construct No.: TV 24-031-2716

Emissions Point No.	Date Permit Issued	Condition No.	Brief Description of Condition and Reason for Exclusion
DCT-1	9/15/2022	Table IV - 1	Remove all references to EU DCT-1. Per notification to MDE on 12/22/23, this emission unit has been permanently shutdown.



SECTION 3D. ALTERNATE OPERATING SCENARIOS

Emissions Unit No.: Not Applicable



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SECTION 4.

CONTROL EQUIPMENT

1. <u>Associated Emissions Units No.</u> : HCT-1 and 2	2. <u>Emissions Point No.:</u> HCT-1 and 2 Stacks
3. <u>Type and Description of Control Equipment:</u> Water Injection.	
4. Pollutants Controlled: NO _x	Control Efficiency: NA
5. Capture Efficiency: NA	



SECTION 5. SUMMARY SHEET OF POTENTIAL EMISSIONS

List all applicable pollutants in tons per year (tpy) pertaining to this facility. The Emissions Unit No. should be consistent with numbers used in Section 3. Attach a copy of all calculations.

Pollutant	NO _x	SO _x	VOC	PM ₁₀	HAP
CAS Number	NA	7446-09-5	NA	NA	NA
EU HCT-1	51.20	0.66	0.97	3.14	0.48
EU HCT-2	32.90	0.36	0.97	3.06	0.47

Note: Emissions data from 2024 Emission Statement



**SECTION 6. EXPLANATION OF PROPOSED EXEMPTIONS FROM
OTHERWISE APPLICABLE FEDERALLY ENFORCEABLE
REQUIREMENTS**

Describe and cite the applicable requirements to be exempted. Complete this Section only if the facility is claiming exemptions from or the non-applicability of any federally enforceable requirements.

Not Applicable



SECTION 7. COMPLIANCE SCHEDULE FOR NONCOMPLYING EMISSIONS UNITS

1. Emissions Unit #	Anticipated Compliance Date
NA	
Applicable Federally Enforceable Requirement being Violated:	

2. Description of Plan to Achieve Compliance:

Certified Progress Reports for sources in noncompliance shall be submitted at least quarterly to the Department.



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STATE-ONLY ENFORCEABLE REQUIREMENTS

Facility Information:

Name of Facility: Dickerson Generating Station	County: Montgomery
Premises Number: 150019	
Street Address: 21230 Martinsburg Road, Dickerson, MD 20842	
24-hour Emergency Telephone Number for Air Pollution Matters: 301-601-6565	
Type of Equipment (List Significant Units): HCT 1 and 2 - Two 167-MW GE Frame 7F gas and oil-fired combustion turbines.	



CITATION TO AND DESCRIPTION OF APPLICABLE STATE- ONLY ENFORCEABLE REQUIREMENTS

Registration No.: 150019

Emissions Unit No.: Facility General Reference: COMAR 26.11.06.08

Briefly describe the requirement and the emissions limit (if applicable):

Nuisance. "An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be consumed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution."

Methods used to demonstrate compliance:

NA



CITATION TO AND DESCRIPTION OF APPLICABLE STATE- ONLY ENFORCEABLE REQUIREMENTS

Registration No.: 150019

Emissions Unit No.: Facility General Reference: COMAR 26.11.06.09

Briefly describe the requirement and the emissions limit (if applicable):

Odors. "A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created."

Methods used to demonstrate compliance:

NA



**CITATION TO AND DESCRIPTION OF APPLICABLE STATE- ONLY
ENFORCEABLE REQUIREMENTS**

Registration No.: 1518229-0362, 9-0363

Emissions Unit No.: HCT-1 and 2

General Reference: COMAR 26.09.01 thru COMAR 26.09.04

Briefly describe the requirement and the emissions limit (if applicable):

CO₂ Budget Trading Program – Each affected unit shall demonstrate compliance with the CO₂ budget emissions limitation by having one CO₂ allowance in its compliance account for every ton of CO₂ that it emits in control period, by the allowance transfer deadline for that control period.

Methods used to demonstrate compliance:

Install PEMs to monitor CO₂, gas flow, oxygen, heat input, and fuel flow. All monitoring systems should be in accordance with 40 CFR 75.



ATTACHMENT A

CHECKLIST OF INSIGNIFICANT ACTIVITIES

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION INSIGNIFICANT ACTIVITIES LIST**

III. Check-off List of Emissions Units and Activities Exempt from the Part 70 Permit Application

Insignificant Activities

Place a check mark beside each type of emissions unit or activity that is located at the facility. Where noted, please indicate the number of that type of emissions unit or activity located at the facility.

- (1) No. ____ Fuel burning equipment using gaseous fuels or no. 1 or no. 2 fuel oil, and having a heat input less than 1,000,000 Btu (1.06 gigajoules) per hour;
- (2) No. ____ Fuel-burning equipment using solid fuel and having a heat input of less than 350,000 Btu (0.37 gigajoule) per hour;
- (3) No. 2 Stationary internal combustion engines with less than 500 brake horsepower (373 kilowatts) of power output
- (4) ____ Space heaters utilizing direct heat transfer and used solely for comfort heat;
- (5) ____ Water cooling towers and water cooling ponds unless used for evaporative cooling of water from barometric jets or barometric condensers, or used in conjunction with an installation requiring a permit to operate;
- (6) No. ____ Unheated VOC dispensing containers or unheated VOC rinsing containers of 60 gallons (227 liters) capacity or less;
- (7) ____ Commercial bakery ovens with a rated heat input capacity of less than 2,000,000 Btu per hour;
- (8) ____ Kilns used for firing ceramic ware, heated exclusively by natural gas, liquefied petroleum gas, electricity, or any combination of these;
- (9) ____ Confection cookers where the products are edible and intended for human consumption;
- (10) ____ Die casting machines;
- (11) ____ Photographic process equipment used to reproduce an image upon sensitized material through the use of radiant energy;
- (12) ____ Equipment for drilling, carving, cutting, routing, turning, sawing, planing, spindle sanding, or disc sanding of wood or wood products;

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
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RENEWAL TITLE V APPLICATION INSIGNIFICANT ACTIVITIES LIST**

- (13) ____ Brazing, soldering, or welding equipment, and cutting torches related to manufacturing and construction activities that emit HAP metals and not directly related to plant maintenance, upkeep and repair or maintenance shop activities;
- (14) ____ Equipment for washing or drying products fabricated from metal or glass, provided that no VOC is used in the process and that no oil or solid fuel is burned;
- (15) ____ Containers, reservoirs, or tanks used exclusively for electrolytic plating work, or electrolytic polishing, or electrolytic stripping of brass, bronze, cadmium, copper, iron, lead, nickel, tin, zinc, and precious metals;
- (16) Containers, reservoirs, or tanks used exclusively for:
- (a) ____ Dipping operations for applying coatings of natural or synthetic resins that contain no VOC;
 - (b) ____ Dipping operations for coating objects with oils, waxes, or greases, and where no VOC is used;
 - (c) X Storage of butane, propane, or liquefied petroleum, or natural gas;
 - (d) No. 6 Storage of lubricating oils;
 - (e) No. ____ Unheated storage of VOC with an initial boiling point of 300 °F (
 - (f) No. 1 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel,
 - (g) No. 1 Storage of motor vehicle gasoline and having individual tank capacities of 2,000 gallons (7.6 cubic meters) or less;
 - (h) No. 250 The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;
- (17) ____ Gaseous fuel-fired or electrically heated furnaces for heat treating glass or metals, the use of which does not involve molten materials;
- (18) Crucible furnaces, pot furnaces, or induction furnaces, with individual capacities of 1,000 pounds (454 kilograms) or less each, in which no sweating or distilling is conducted, or any fluxing is conducted using chloride, fluoride,

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AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION INSIGNIFICANT ACTIVITIES LIST**

or ammonium compounds, and from which only the following metals are poured or in which only the following metals are held in a molten state:

- (a) ____ Aluminum or any alloy containing over 50 percent aluminum, if no gaseous chloride compounds, chlorine, aluminum chloride, or aluminum fluoride is used;
- (b) ____ Magnesium or any alloy containing over 50 percent magnesium;
- (c) ____ Lead or any alloy containing over 50 percent lead;
- (d) ____ Tin or any alloy containing over 50 percent tin;
- (e) ____ Zinc or any alloy containing over 50 percent zinc;
- (f) ____ Copper;
- (g) ____ Precious metals;
- (19) ____ Charbroilers and pit barbecues as defined in COMAR 26.11.18.01 with a total cooking area of 5 square feet (0.46 square meter) or less;
- (20) ____ First aid and emergency medical care provided at the facility, including related activities such as sterilization and medicine preparation used in support of a manufacturing or production process;
- (21) x Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks displays, and kerosene fuel use;
- (22) ____ Potable water treatment equipment, not including air stripping equipment;
- (23) ____ Firing and testing of military weapons and explosives;
- (24) ____ Emissions resulting from the use of explosives for blasting at quarrying operations and from the required disposal of boxes used to ship the explosive;
- (25) ____ Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;
- (26) ____ Grain, metal, or mineral extrusion presses;
- (27) ____ Breweries with an annual beer production less than 60,000 barrels;

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
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RENEWAL TITLE V APPLICATION INSIGNIFICANT ACTIVITIES LIST**

(28)____ Natural draft hoods or natural draft ventilators that exhaust air pollutants into the ambient air from manufacturing/industrial or commercial processes;

(29)____ Laboratory fume hoods and vents;

(30)No. ____ Sheet-fed letter or lithographic printing press(es) with a cylinder width of less than 18 inches;

For the following, attach additional pages as necessary:

(31) any other emissions unit, not listed in this section, with a potential to emit less than the “de minimus” levels listed in COMAR 26.11.02.10X (list and describe units):

No. 1 125,000 BTU Protemp Portable Kerosene Heater

No. 2 135,000 BTU Remington 135 Portable Kerosene Heater

No. 3 140,000 BTU Val 6 Infrared Portable Kerosene Heater

No. 1 100,000 BTU Thermoheat Portable Kerosene Heater

No. ____

(32) any other emissions unit at the facility which is not subject to an applicable requirement of the Clean Air Act (list and describe):

No. ____

No. ____

No. ____

ATTACHMENT B

RENEWAL APPLICATION CHECKLIST

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION CHECKLIST**

VI .Application Completeness Checklist

The purpose of this part is to list the information required to achieve a Part 70 application shield.

Cover Page

- (x) Name and address of owner or operator, including telephone number.
- (x) Name and address of facility, including the plant manager's name and telephone number.
- (x) A 24-hour emergency telephone number for air pollution matters.

Section 1 CERTIFICATION STATEMENTS

- (x) The certification statement completed and signed by a responsible official.

Section 2 FACILITY DESCRIPTION SUMMARY

- (x) A brief description of each of the source's process(es), including all applicable SIC codes and end products.
- (x) Flow diagrams indicating all emissions units, emission points, and control devices.
- (x) A plot plan of the entire facility.
- (x) Emission Certification Report.
- (x) General Emissions Information.

Section 3 EMISSIONS UNIT DESCRIPTIONS –

This section must be completed for each emissions unit.

Part A

- (x) Emissions unit number.
- (x) Detailed description of unit, including all emission points.
- (x) Federally enforceable limit(s) on the operating schedule.

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION CHECKLIST**

- (x) Fuel consumption information for any emissions unit that consumes fuel including the type of fuel, percent sulfur, and annual usage of fuel.

Part B

- (x) A citation and description of each federally enforceable requirement, including all emission standards, for each emissions unit.
- (x) A statement of compliance demonstration techniques for each requirement, including a description of monitoring, record keeping, reporting requirements, and test methods.
- (x) The frequency of submittal of the compliance demonstration during the permit term.

Part C

- (x) Emissions unit number.
- (x) Permit to construct number.
- (x) Emissions point number(s).
- (x) Date(s) the permit to construct was issued.
- (x) Condition number(s) as indicated on the permit to construct.
- (x) Description of the permit condition(s) and the reason(s) why they are believed to be obsolete, extraneous, or insignificant.

Part D NA

- () Description of all alternate operating scenarios that apply to an emissions unit.
- () Number assigned to each scenario.
- () Emissions unit number.

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION CHECKLIST**

- () Description of the operating parameters for the emissions unit and other information which describes the how the operation of the unit will change under the different scenario.

Part E

- (x) A citation and description of each federally enforceable requirement triggered by an operating scenario, including all emission standards, for each emissions unit.
- (x) As an attachment, the date and results of the most recent compliance demonstration for each emission standard and/or emissions certification report with relevant supporting documentation.
- (x) A statement of compliance demonstration techniques for each requirement, including a description of monitoring, record keeping, reporting requirements, and test methods.
- (x) The frequency of submittal of the compliance demonstration during the permit term.

Section 4 CONTROL EQUIPMENT

- (x) The type of each piece of air pollution control equipment
- (x) The capture and control efficiencies of the control equipment.

Section 5 SUMMARY SHEET OF POTENTIAL EMISSIONS

The actual emissions and supporting calculations for 2024 are provided

- (x) Quantity of 2024 emissions for criteria pollutants and HAPs emitted in tons per year for each emissions unit.
- (x) Fugitive emission estimations for the entire facility for criteria pollutants and HAPs emitted in tons per year.
- (x) Basis for all emission calculations.

**Section 6 AN EXPLANATION OF PROPOSED EXEMPTIONS
FROM OTHERWISE APPLICABLE FEDERALLY
ENFORCEABLE REQUIREMENTS**

NA

- () An explanation of the proposed exemption.

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION CHECKLIST**

**Section 7 COMPLIANCE SCHEDULE FOR NONCOMPLYING
EMISSIONS UNITS NA**

- () Identification of emissions unit(s) not in compliance, including the requirement being violated and the effective compliance date.
- () Detailed description of methods to be used to achieve compliance.
- () A schedule of remedial measures, including an enforceable sequence of actions with milestones.

Attachment

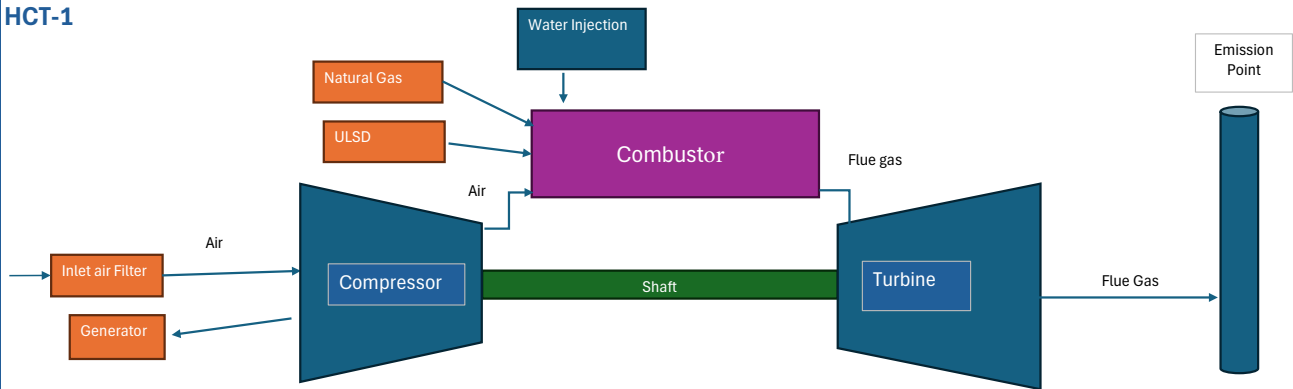
- (x) Checklist of Insignificant Activities
- () CAM Plan (If Applicable)

ATTACHMENT C

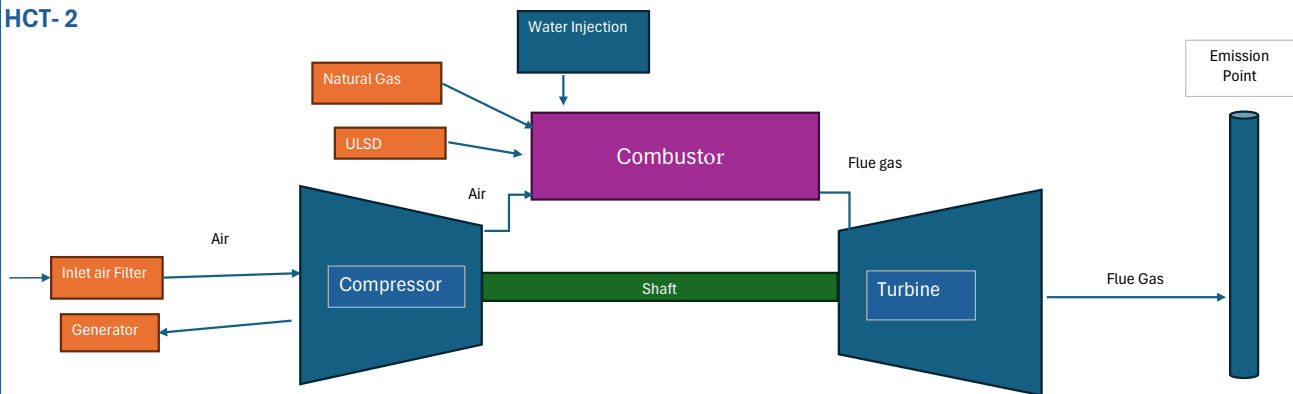
PROCESS FLOW DIAGRAM

Dickerson Power, LLC Process Flow Diagram

HCT-1

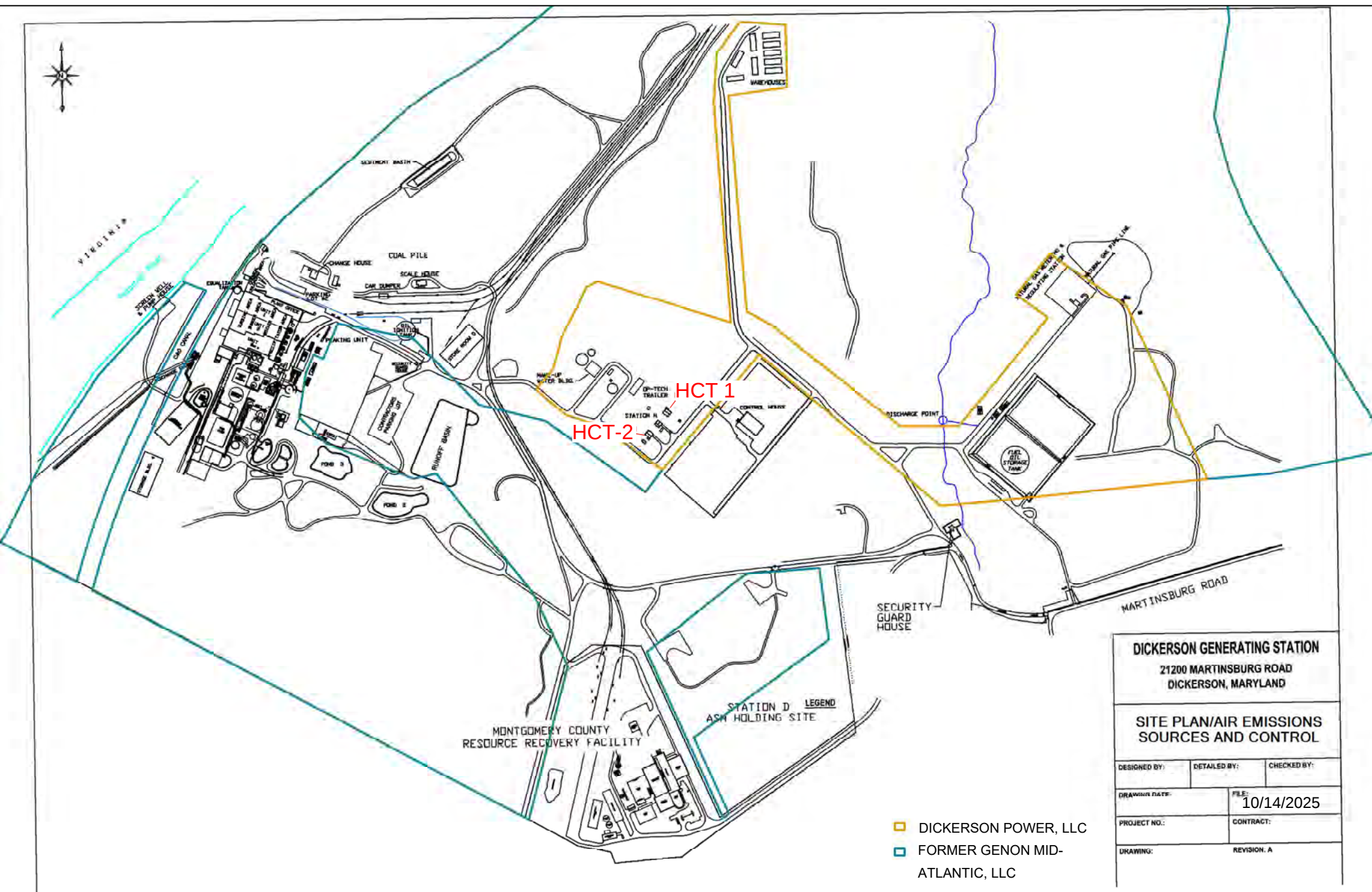


HCT- 2



ATTACHMENT D

PLOT PLAN



ATTACHMENT E

2024 EMISSIONS CERTIFICATION REPORT

Dickerson Power, LLC

21230 Martinsburg Road
Dickerson, MD 20842

March 31, 2025

Mr. Daniel Davis
Maryland Department of the Environment
Air Quality Compliance Program
Air and Radiation Administration
1800 Washington Boulevard, Suite 715
Baltimore, Maryland 21230-1720

Via Electronic Mail

RE: Dickerson Power, LLC 2024 Emission Certification

Dear Mr. Davis:

Enclosed please find the 2024 Emission Certification Report for the Dickerson Power, LLC facility. The 2024 Unit Capacity Factor table is also enclosed. The facility was in compliance with Maryland's Air Toxic Regulations (COMAR 26.11.15) during the past calendar year.

Please feel free to contact me at (301) 691-5119 if you have any questions regarding the information contained in this submittal.

Sincerely,

Westley Curtis

EHS Manager

Enclosures

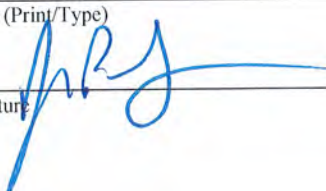
cc: J. Simpson, Plant Manager - Dickerson
A. Nishida, AECOM
W. Baggett, AECOM

**2024 Annual Net Capacity Factor
for Lanyard Dickerson & Chalk Point Units**

Unit	Net MWhrs	Net MW Rating	Capacity Factor (%)
Dickerson			
Dickerson HCT1	69,608	147	5.41%
Dickerson HCT2	69,929	147	5.43%
Chalk Point			
Chalk Point Unit 3	480,036	595	9.21%
Chalk Point Unit 4	405,694	585	7.92%
Chalk Point CT 1	437	18	0.28%
Chalk Point CT 2	44	24	0.02%
Chalk Point CT 3	6,527	86	0.87%
Chalk Point CT 4	6,949	86	0.92%
Chalk Point CT 5	12,535	109	1.31%
Chalk Point CT 6	10,378	109	1.09%
SMECO CT	685	80	0.10%
Auxiliary Boiler Calculations	#2 Oil Gallons	Gal/Hr Rating	Capacity Factor (%)
Aux Boiler 3 - Out of service	-	-	0.00%
Aux Boiler 4 - Out of service	-	-	0.00%
Aux Boiler 5	165,389	1,230	1.53%
Aux Boiler 6	133,382	1,230	1.24%
Aux Boiler 7	154,470	1,230	1.43%

Sample Calcs: Capacity Factor for EGUs = $\text{NMWHrs} / (\text{Unit MW Rating} * 8760 \text{ Hrs/yr}) * 100$
Capacity Factor for Aux Blrs = $\text{\#2 Oil Gallons} / (\text{Blr Gal/Hr Rating} * 8760 \text{ Hrs/yr}) * 100$

Emission Certification Forms

A. FACILITY IDENTIFICATION						Do Not Write in This Space	
Facility Name Dickerson Power, LLC - Dickerson Generating Station						Date Received Regional	
Address 21230 Martinsburg Road						Date Received State	
City Dickerson		County Montgomery		Zip Code 20842		AIRS Code	
B. Briefly Describe the Major Function of the Facility						FINDS Code	
Electric Generation						SIC Code	
						Facility Number	
						Source Latitude and Longitude	
C. SEASONAL PRODUCTION (if applicable)						Reviewed	
Winter (Dec.-Feb.)		Spring (Mar.-May)		Summer (June-Aug.)		Fall (Sept.-Nov.)	
						Name	
						Date	
D. Explain Any Increase/Decrease From Previous Calendar Year for Each Registration at this facility.							
Any Increases/decreases in emission are due to a commensurate change in fuel usage during 2024.							
E. CONTROL DEVICE INFORMATION (for NOx and VOC sources only)							
Control Device			Capture Efficiency			Removal Efficiency	
HCTs 1 & 2 Water Injection			N/A			N/A	
I am familiar with the facility and the installations and sources for which this report is submitted. I have personally examined the information in this report, which consists of 65 pages (including attachments), and certify that the information is correct to the best of my knowledge.							
Jerry Simpson			Plant Manager			March 27, 2025	
Name (Print/Type)			Title			Date	
						(301) 691-6528	
Signature						Telephone Number	
3/26/2025							

FORM 2

**CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT**

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019

Pollutant: NO_x

Calendar Year: 2024

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule(Actual)					TOSD	Operating Schedule				Emissions Methods
				Tons/yr	Lbs/day	Hrs/day	Start	End	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	
15001940907 CT 1	150	Oil	S	0.00	0.00	0.0					0	0.00	0.0			C3
15182290362 HCT 1	150	Oil	S	1.21	898.25	5.94					114	1006.98	6.58			C1
		Gas	S	49.99												C1
15182290363 HCT 2	150	Oil	S	0.50	651.49	6.65					101	730.43	7.46			C1
		Gas	S	32.40												C1
15001990062 Gasoline Pump	150		F	0.14	23.54	0.25					12	23.54	0.25			C3
Total				84.24	1,573.27							1,760.9				

S-Stack Emissions

F-Fugitive Emissions

Daily emissions(lbs/day) are lbs/operating day of the source

TOSD-Typical Ozone Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April-September). This section needs to be completed only for VOC and NOx sources.

Emission Estimation Method

A1-U.S. EPA Reference Method
A2-Other Particulate Sampling Train
A3-Liquid Absorption Technique
A4-Solid Absorption Technique
A5-Freezing Out Technique
A9-Other, Specify

C1-User calculated based on source
test or other measurement
C2-User calculated based on material balance
using engineering knowledge of the process
C3-User calculated based on AP-42
C4-User calculated by best guess/engineering
judgement

C5-User Calculated based on State or local
agency emission factor
C6-New construction, not operational
C7-Source closed, operation ceased
C8-Computer calculated based on standard

FORM 2

CRITERIA AIR POLLUTANTS

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019

Pollutant: **VOC**

Calendar Year: 2024

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule(Actual)						TOSD	Operating Schedule			Emissions Methods
				Tons/yr	Lbs/day	Hrs/day	Start	End	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	
----- 15001940907 CT 1	150	Oil	S	0.00	0.00	0.0					0	0.00	0.0			C3
----- 15182290362 HCT 1	150	Oil	S	0.00		5.9					114	19.32	6.58			C3
----- 15182290363 HCT 2	150	Gas	S	0.97	17.04											C3
----- 15182290363 HCT 2	150	Oil	S	0.00	19.13	6.7					101	21.83	7.46			C3
----- 15001990062 Gasoline Pump	150	Gas	S	0.96												C3
----- 			F	0.26	43.86	0.3					12	43.86	0.25			C3

----- Total				2.20	80.02							85.00				

S-Stack Emissions

F-Fugitive Emissions

Daily emissions(lbs/day) are lbs/operating day of the source

TOSD-Typical Ozone Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April-September). This section needs to be completed only for VOC and NOx sources.

Emission Estimation Method

A1-U.S. EPA Reference Method
A2-Other Particulate Sampling Train
A3-Liquid Absorption Technique
A4-Solid Absorption Technique
A5-Freezing Out Technique
A9-Other, Specify

- C1-User calculated based on source test or other measurement
- C2-User calculated based on material balance using engineering knowledge of the process
- C3-User calculated based on AP-42
- C4-User calculated by best guess/engineering judgement

C5-User Calculated based on State or local agency emission factor
C6-New construction, not operational
C7-Source closed, operation ceased
C8-Computer calculated based on standard

FORM 2

**CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT**

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019

Pollutant: SO₂

Calendar Year: 2024

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule(Actual)					TOSD	Operating Schedule			Emissions	
				Tons/yr	Lbs/day	Hrs/day	Start	End	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	Methods
15001940907 CT 1	150	Oil	S	0.00	0.00	0.0					0					C3
15182290362 HCT 1	150	Oil	S	0.34	11.58	5.9					114					C1
		Gas	S	0.32												C1
15182290363 HCT 2	150	Oil	S	0.14	7.13	6.7					101					C1
		Gas	S	0.22												C1
15001990062 Gasoline Pump	150		F	0.01	1.22	0.3					12					C3

S-Stack Emissions

F-Fugitive Emissions

Daily emissions(lbs/day) are lbs/operating day of the source

TOSD-Typical Ozone Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April-September). This section needs to be completed only for VOC and NOx sources.

Emission Estimation Method

A1-U.S. EPA Reference Method
A2-Other Particulate Sampling Train
A3-Liquid Absorption Technique
A4-Solid Absorption Technique
A5-Freezing Out Technique
A9-Other, Specify

C1-User calculated based on source
test or other measurement
C2-User calculated based on material balance
using engineering knowledge of the process
C3-User calculated based on AP-42
C4-User calculated by best guess/engineering
judgement

C5-User Calculated based on State or local
agency emission factor
C6-New construction, not operational
C7-Source closed, operation ceased
C8-Computer calculated based on standard

FORM 2

**CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT**

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019

Pollutant: CO

Calendar Year: 2024

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Hrs/day	Operating Schedule(Actual)					TOSD	Operating Schedule		Emissions	
				Tons/yr	Lbs/day		Start	End	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	Methods
15001940907 CT 1	150	Oil	S	0.00	0.00	0.0					0					C3
15182290362 HCT 1	150	Oil	S	0.03	0.51	5.9					114					C3
		Gas	S	37.78	662.78											C3
15182290363 HCT 2	150	Oil	S	0.01	0.19	6.7					101					C3
		Gas	S	37.67	745.90											C3
15001990062 Gasoline Pump	150		F	5.44	906.99	0.3					12					C3

S-Stack Emissions

F-Fugitive Emissions

Daily emissions(lbs/day) are lbs/operating day of the source

TOSD-Typical Ozone Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April-September). This section needs to be completed only for VOC and NOx sources.

Emission Estimation Method

- A1-U.S. EPA Reference Method
- A2-Other Particulate Sampling Train
- A3-Liquid Absorption Technique
- A4-Solid Absorption Technique
- A5-Freezing Out Technique
- A9-Other, Specify

- C1-User calculated based on source test or other measurement
- C2-User calculated based on material balance using engineering knowledge of the process
- C3-User calculated based on AP-42
- C4-User calculated by best guess/engineering judgement

- C5-User Calculated based on State or local agency emission factor
- C6-New construction, not operational
- C7-Source closed, operation ceased
- C8-Computer calculated based on standard

FORM 2

**CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT**

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019

Pollutant: **Pb**

Calendar Year: 2024

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule(Actual)					TOSD	Operating Schedule			Emission	
				Tons/yr	Lbs/day	Hrs/day	Start	End	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	Method
15001940907 CT 1	150	Oil	S	0.00	0.00	0.0					0					C3
15182290362 HCT 1	150	Oil	S	0.00	0.00	5.9					114					C3
		Gas	S	0.00	0.00											
15182290363 HCT 2	150	Oil	S	0.00	0.00	6.7					101					C3
		Gas	S	0.00	0.00											
15001990062 Gasoline Pump	150	NA	F													

S-Stack Emissions

F-Fugitive Emissions

Daily emissions(lbs/day) are lbs/operating day of the source

TOSD-Typical Ozone Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April-September). This section needs to be completed only for VOC and NOx sources.

Emission Estimation Method

- A1-U.S. EPA Reference Method
- A2-Other Particulate Sampling Train
- A3-Liquid Absorption Technique
- A4-Solid Absorption Technique
- A5-Freezing Out Technique
- A9-Other, Specify

- C1-User calculated based on source test or other measurement
- C2-User calculated based on material balance using engineering knowledge of the process
- C3-User calculated based on AP-42
- C4-User calculated by best guess/engineering judgement

- C5-User Calculated based on State or local agency emission factor
- C6-New construction, not operational
- C7-Source closed, operation ceased
- C8-Computer calculated based on standard

FORM 3: PM total

CRITERIA AIR POLLUTANTS EMISSIONS CERTIFICATION REPORT

Calendar Year: 2024

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019

Pollutant: **PM total**

Equipment Description/ Registration No.	SCC Number	Fuel		Primary		Filterable		Condensable		Operations Days/yr	Emissions
				Tons/yr	Lbs/day	Tons/yr	Lbs/day	Tons/yr	Lbs/day		Methods
----- 15001940907 CT 1	150	Oil	S	0.00	0.00	0.00	0.00	0.00	0.00	0	C3
----- 15182290362 H CT 1	150	Oil	S	0.10	1.77	0.04	0.66	0.06	1.11	114	C3
----- 15182290363 H CT 2		Gas	S	3.04	53.35	0.88	15.36	2.17	37.99		C3
----- 15001990062 Gasoline Pump	150	Oil	S	0.03	0.66	0.01	0.25	0.02	0.41	101	C3
-----		Gas	S	3.03	60.04	0.87	17.28	2.16	42.75		C3
-----		F		0.01	1.45	0.01	1.45	-	-	12	C3

Total				6.22	117.25	1.81	34.99	4.41	82.26		

S-Stack Emissions

F-Fugitive Emissions

Daily emissions(lbs/day) are lbs/operating day of the source

Fuel: Include emissions for each fuel used. If more than one fuel is used, calculate and list emissions separately for each fuel

Emission Estimation Method

A1-U.S. EPA Reference Method

A2-Other Particulate Sampling Train

A3-Liquid Absorption Technique

A4-Solid Absorption Technique

A5-Freezing Out Technique

A9-Other, Specify

C1-User calculated based on source

test or other measurement

C2-User calculated based on material balance

using engineering knowledge of the process

C3-User calculated based on AP-42

C4-User calculated by best guess/engineering judgement

C5-User Calculated based on State or local

agency emission factor

C6-New construction, not operational

C7-Source closed, operation ceased

C8-Computer calculated based on standard

FORM 3: PM2.5

CRITERIA AIR POLLUTANTS EMISSIONS CERTIFICATION REPORT

Calendar Year: 2024

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019

Pollutant: PM_{2.5}

Equipment Description/ Registration No.	SCC Number	Fuel		Primary		Filterable		Condensable		Operations Days/yr	Emissions
				Tons/yr	Lbs/day	Tons/yr	Lbs/day	Tons/yr	Lbs/day		Methods
----- 15001940907 CT 1	150	Oil	S	0.00	0.00	0.00	0.00	0.00	0.00	0	C3
----- 15182290362 H CT 1	150	Oil	S	0.10	1.77	0.04	0.66	0.06	1.11	114	C3
----- 15182290363 H CT 2	150	Gas		3.04	53.35	0.88	15.36	2.17	37.99		C3
----- 15182290363 H CT 2	150	Oil	S	0.03	0.66	0.01	0.25	0.02	0.41	101	C3
----- 15001990062 Gasoline Pump	150	Gas		3.03	60.04	0.87	17.28	2.16	42.75		C3
----- 		F		0.01	1.45	0.01	1.45	-	-	12	C3
----- 			S								

----- Total				6.22	117.25	1.81	34.99	4.41	82.26		

S-Stack Emissions

F-Fugitive Emissions

Daily emissions(lbs/day) are lbs/operating day of the source

Fuel: Include emissions for each fuel used. If more than one fuel is used, calculate and list emissions separately for each fuel

Emission Estimation Method

A1-U.S. EPA Reference Method
A2-Other Particulate Sampling Train
A3-Liquid Absorption Technique
A4-Solid Absorption Technique
A5-Freezing Out Technique
A9-Other, Specify

- C1-User calculated based on source test or other measurement
- C2-User calculated based on material balance using engineering knowledge of the process
- C3-User calculated based on AP-42
- C4-User calculated by best guess/engineering judgement

C5-User Calculated based on State or local agency emission factor
C6-New construction, not operational
C7-Source closed, operation ceased
C8-Computer calculated based on standard

FORM 3: PM10

**CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT**

Calendar Year: 2024

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019

Pollutant: **PM₁₀**

Equipment Description/ Registration No.	SCC Number	Fuel		Primary		Filterable		Condensable		Operations	Emissions
				Tons/yr	Lbs/day	Tons/yr	Lbs/day	Tons/yr	Lbs/day	Days/yr	Methods
15001940907	150	Oil	S	0.00	0.00	0.00	0.00	0.00	0.00	0	C3
CT 1											
15182290362	150	Oil	S	0.10	1.77	0.04	0.66	0.06	1.11	114	C3
H CT 1		Gas		3.04	53.35	0.88	15.36	2.17	37.99		C3
15182290363	150	Oil	S	0.03	0.66	0.01	0.25	0.02	0.41	101	C3
H CT 2		Gas		3.03	60.04	0.87	17.28	2.16	42.75		C3
15001990062	150			0.01	1.45	0.01	1.45	-	-	12	C3
Gasoline Pump											
Total				6.22	117.25	1.81	34.99	4.41	82.26		

S-Stack Emissions

F-Fugitive Emissions

Daily emissions(lbs/day) are lbs/operating day of the source

Fuel: Include emissions for each fuel used. If more than one fuel is used, calculate and list emissions separately for each fuel

Emission Estimation Method

A1-U.S. EPA Reference Method
A2-Other Particulate Sampling Train
A3-Liquid Absorption Technique
A4-Solid Absorption Technique
A5-Freezing Out Technique
A9-Other, Specify

C1-User calculated based on source
test or other measurement
C2-User calculated based on material balance
using engineering knowledge of the process
C3-User calculated based on AP-42
C4-User calculated by best guess/engineering
judgement

C5-User Calculated based on State or local
agency emission factor
C6-New construction, not operational
C7-Source closed, operation ceased
C8-Computer calculated based on standard

FORM 4

Toxic Air Pollutants

Calendar Year: 2024

Emissions Certification Report

Facility Name: Dickerson Generating StationFacility ID#: 031-00019

Pollutant: As

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001940907 CT 1	0.00E+00	0.00E+00	0.00E+00	NA	NA
15182290362 HCT 1	9.64E-05	1.69E-03	2.85E-04	NA	NA
15182290363 HCT 2	3.17E-05	6.28E-04	9.44E-05	NA	NA
15001990062 Gasoline Pump	-	-	-		
Total	1.28E-04	2.32E-03	3.79E-04		

* Please attach all calc.
* See Attachment 1 for all reporting values
** Control Device
S - Scrubber
B - Baghouse
ESP - Electrostatic Precipitator
A - Afterburner
AD - Adsorption
O - Other

FORM 4

Toxic Air Pollutants

Calendar Year: 2024

Emissions Certification Report

Facility Name: Dickerson Generating StationFacility ID#: 031-00019

Pollutant: Formaldehyde

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001940907 CT 1	0.00E+00	0.00E+00	0.00E+00	NA	NA
15182290362 HCT 1	3.30E-01	5.78E+00	9.73E-01	NA	NA
15182290363 HCT 2	3.27E-01	6.47E+00	9.73E-01	NA	NA
15001990062 Gasoline Pump	-	-	-		
Total	6.57E-01	1.23E+01	1.95E+00		

* Please attach all calc.
* See Attachment 1 for all reporting values
** Control Device
S - Scrubber
B - Baghouse
ESP - Electrostatic Precipitator
A - Afterburner
AD - Adsorption
O - Other

FORM 5:**BILLABLE TOXIC AIR POLLUTANTS**

Calendar Year: 2024

Emission Certification ReportFacility Name: Dickerson Generating StationFacility ID#: 031-00019

Chemical Name	CAS Number		Actual Emissions			Estimation Method
			Tons/year	Lbs/day	Lbs/hr	
carbon disulfide	75-15-0	S F	-	-	-	C3
carbonyl sulfide	463-58-1	S F	-	-	-	C3
chlorine	7782-50-5	S F	-	-	-	C3
cyanide compounds	57-12-5	S F	0.00	0.00	0.00	C3
hydrochloric acid	7647-01-0	S F	0.00	0.00	0.00	C3
hydrogen fluoride	7664-39-3	S F	0.00	0.00	0.00	C3
methylene chloroform	71-55-6	S F	-	-	-	C3
methylene chloride	75-09-2	S F	-	-	-	C3
perchloroethylene	127-18-4	S F	-	-	-	C3
phosphine	7803-51-2	S F	-	-	-	C3
titanium tetrachloride	7550-45-0	S F	-	-	-	C3
TOTAL			0.00	0.00	0.00	

FORM 6: Greenhouse Gases

Greenhouse Gas Air Pollutants

Calendar Year: 2024

Emissions Certification Report

Facility Name: Dickerson Generating StationFacility ID#: 031-00019Pollutant: **CO₂**

Equipment Description/ Registration No.	Actual Emissions		
	Tons/yr	Lbs/day	Lbs/hr
15001940907 CT 1	0.0	0	0
15182290362 HCT 1	56,299	987,693	166,195
15182290363 HCT 2	54,146	1,072,206	161,174
15001990062 Gasoline Pump	12	1,989	7,956
Total	110,457	2,061,888	335,325

FORM 6: Greenhouse Gases

Greenhouse Gas Air Pollutants

Calendar Year: 2024

Emissions Certification Report

Facility Name: Dickerson Generating StationFacility ID#: 031-00019Pollutant: **CH₄**

Equipment Description/ Registration No.	Actual Emissions		
	Tons/yr	Lbs/day	Lbs/hr
15001940907 ----- CT 1	0.00	0.00	0.00
15182290362 ----- HCT 1	1.08	18.88	3.18
15182290363 ----- HCT 2	1.01	20.10	3.02
15001990062 ----- Gasoline Pump	0.00	0.09	0.38

Total	2.09	39.07	6.58

FORM 6: Greenhouse Gases

Greenhouse Gas Air Pollutants

Calendar Year: 2024

Emissions Certification Report

Facility Name: Dickerson Generating StationFacility ID#: 031-00019Pollutant: N_2O

Equipment Description/ Registration No.	Actual Emissions		
	Tons/yr	Lbs/day	Lbs/hr
15001940907 CT 1	0.00	0.00	0.00
15182290362 HCT 1	0.11	1.99	0.33
15182290363 HCT 2	0.10	2.05	0.31
15001990062 Gasoline Pump	0.00	0.02	0.08
Total	0.22	4.06	0.72

Supporting Calculations

Input Operational Data

Facility:

Dickerson

Reporting Year:

2024

GADS

Pi

GADS

Combustion Turbines (#1, HCT1, and HCT2) - Monthly Operating Data

GADS

CEM

GADS

GADS

	CT1 Hours	CT1 Days	CT1 #2 Oil gallons	HCT1 Hours	HCT1 Days	HCT1 #2 Oil gallons	HCT1 Gas Mcf
Jan	0.00	0	0	27.72	6	42,420	26,520
Feb	0.00	0	0	22.16	5	0	27,160
Mar	0.00	0	0	33.20	7	0	40,220
Apr	0.00	0	0	61.90	14	0	76,670
May	0.00	0	0	58.30	12	65,520	62,030
Jun	0.00	0	0	62.93	10	0	81,130
Jul	0.00	0	0	232.53	28	3,780	331,440
Aug	0.00	0	0	109.12	15	0	151,800
Sep	0.00	0	0	41.47	7	0	49,690
Oct	0.00	0	0	24.07	5	0	28,260
Nov	0.00	0	0	0.00	0	0	0
Dec	0.00	0	0	4.10	5	15,960	3,840
Total	0.00	0	0	677.50	114	127,680	878,760

Note: HCT1 = GT2 for GHG reporting

CEM	CEM	CEM	CEM	CEM	CEM	GADS	CEM
HCT1 NOx CEMS Oil tons	HCT1 NOx CEMS Gas tons	HCT1 SO2 CEMS Oil tons	HCT1 SO2 CEMS Gas	HCT1 CO2 CEMS tons	HCT1 HI CEMS MMBtu	HCT2 Hours	HCT2 Days
0.4	1.5	0.10	0.00	2,141	33,955	43.64	7
0.0	1.5	0.00	0.00	1,692	28,477	23.60	5
0.0	2.3	0.00	0.01	2,510	42,228	39.78	8
0.0	4.5	0.00	0.02	4,983	83,832	60.57	10
0.7	3.6	0.20	0.04	4,700	75,732	20.84	5
0.0	4.5	0.00	0.00	5,011	84,316	71.53	10
0.1	18.4	0.01	0.20	20,459	344,074	225.41	26
0.0	8.6	0.00	0.04	9,421	158,519	101.75	12
0.0	2.9	0.00	0.01	3,115	52,407	34.73	6
0.0	1.7	0.00	0.00	1,915	32,213	29.72	6
0.0	0.0	0.00	0.00	0	0	8.75	3
0.0	0.5	0.03	0.00	353	5,236	11.58	3
1.21	49.99	0.34	0.32	56,299	940,988	671.90	101

Note: HCT2 = GT3 for GHG reporting

GADS	GADS	CEM	CEM	CEM	CEM	CEM	CEM
HCT2 #2 Oil gallons	HCT2 Gas Mcf	HCT2 NOx CEMS Oil tons	HCT2 NOx CEMS Gas	HCT2 SO2 CEMS Oil tons	HCT2 SO2 CEMS Gas	HCT2 CO2 CEMS tons	HCT2 HI CEMS MMBtu
32,760	54,020	0.3	2.1	0.11	0.01	3,655	59,970
0	28,490	0.0	1.1	0.00	0.00	1,752	29,488
0	46,410	0.0	1.8	0.00	0.01	2,871	48,312
0	72,730	0.0	2.8	0.00	0.02	4,559	76,724
1,680	24,180	0.0	0.9	0.01	0.00	1,475	24,822
0	87,870	0.0	3.3	0.00	0.00	5,545	93,300
3,360	316,840	0.1	11.4	0.02	0.12	19,331	325,129
0	141,530	0.0	5.2	0.00	0.04	8,719	146,712
0	40,720	0.0	1.5	0.00	0.01	2,471	41,579
0	38,930	0.0	1.4	0.00	0.01	2,240	37,690
0	10,600	0.0	0.4	0.00	0.00	656	11,042
4,200	13,870	0.1	0.5	0.00	0.00	871.8	14,631
42,000	876,190	0.5	32.4	0.14	0.22	54,146	909,399

Industrial Engine Data		Reference
Diesel Used (gallons)	5,043	Dickerson Fuel Data Sheet
Kerosene Used (gallons)	0	Dickerson Fuel Data Sheet

Gasoline Pump		Reference
Gasoline Used (gallons)	1,378	Dickerson Fuel Data Sheet

Fuel Data:

		Value	Reference
#2 Fuel Oil Heating Value	Btu/gal	137,285	PowerGADS
#2 Fuel Oil Sulfur%	wt%	0.017	PowerGADS
#2 Fuel Oil Density	lb/gal	7.00	AP-42, Appendix A
Used Oil Heating Value	Btu/gal		Assume same as #2 Fuel Oil
Used Oil Sulfur%	wt%		Assume same as #2 Fuel Oil
Used Oil Density	lb/gal		Assume same as #2 Fuel Oil
Natural Gas Heating Value	BTU/scf	1,048.6	PowerGADS
Kerosene Heating Value	Btu/gal		AP-42, Appendix A
Kerosene Sulfur%	wt%		AP-42, Appendix A
Kerosene Density	lb/gal		Assume same as #2 Fuel Oil
Gasoline Heating Value	Btu/gal	125,000	AP-42, Appendix A

UnitType	UnitName	Pollutant	EF	Unit	Reference
Turbines - Oil Fired	CT-1	NH3	NA		No factor available
Turbines - Oil Fired	CT-1	FPM	0.0043	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	CT-1	FPM-10	0.0043	lb/MMBtu	No factor available, assumed equal to FPM
Turbines - Oil Fired	CT-1	FPM-2.5	0.0043	lb/MMBtu	No factor available, assumed equal to FPM
Turbines - Oil Fired	CT-1	CPM	0.0072	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	CT-1	SO ₂	0.017	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	CT-1	NOx	0.88	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	CT-1	VOC	0.00041	lb/MMBtu	AP42 Table 3.1-2a
Turbines - Oil Fired	CT-1	CO	0.0033	lb/MMBtu	AP42 Table 3.1-1
Turbines - Oil Fired	HCT-1	NH3	NA		No factor available
Turbines - Oil Fired	HCT-1	FPM	0.0043	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	HCT-1	FPM-10	0.0043	lb/MMBtu	No factor available, assumed equal to FPM
Turbines - Oil Fired	HCT-1	FPM-2.5	0.0043	lb/MMBtu	No factor available, assumed equal to FPM
Turbines - Oil Fired	HCT-1	CPM	0.0072	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	HCT-1	SO ₂	CEM		
Turbines - Oil Fired	HCT-1	NOx	CEM		
Turbines - Oil Fired	HCT-1	VOC	0.00041	lb/MMBtu	AP42 Table 3.1-2a
Turbines - Oil Fired	HCT-1	CO	0.0033	lb/MMBtu	AP42 Table 3.1-1
Turbine - Gas Fired	HCT-1	NH3	NA		No factor available
Turbine - Gas Fired	HCT-1	FPM	0.0019	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-1	FPM-10	0.0019	lb/MMBtu	No factor available, assumed equal to FPM
Turbine - Gas Fired	HCT-1	FPM-2.5	0.0019	lb/MMBtu	No factor available, assumed equal to FPM
Turbine - Gas Fired	HCT-1	CPM	0.0047	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-1	SO ₂	CEM		
Turbine - Gas Fired	HCT-1	NOx	CEM		
Turbine - Gas Fired	HCT-1	VOC	0.0021	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-1	CO	0.082	lb/MMBtu	AP-42, Table 3.1-1
Turbines - Oil Fired	HCT-2	NH3	NA		No factor available
Turbines - Oil Fired	HCT-2	FPM	0.0043	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	HCT-2	FPM-10	0.0043	lb/MMBtu	No factor available, assumed equal to FPM
Turbines - Oil Fired	HCT-2	FPM-2.5	0.0043	lb/MMBtu	No factor available, assumed equal to FPM
Turbines - Oil Fired	HCT-2	CPM	0.0072	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	HCT-2	SO ₂	CEM		
Turbines - Oil Fired	HCT-2	NOx	CEM		
Turbines - Oil Fired	HCT-2	VOC	0.00041	lb/MMBtu	AP42 Table 3.1-2a
Turbines - Oil Fired	HCT-2	CO	0.0033	lb/MMBtu	AP42 Table 3.1-1
Turbine - Gas Fired	HCT-2	NH3	NA		No factor available
Turbine - Gas Fired	HCT-2	FPM	0.0019	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-2	FPM-10	0.0019	lb/MMBtu	No factor available, assumed equal to FPM
Turbine - Gas Fired	HCT-2	FPM-2.5	0.0019	lb/MMBtu	No factor available, assumed equal to FPM
Turbine - Gas Fired	HCT-2	CPM	0.0047	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-2	SO ₂	CEM		
Turbine - Gas Fired	HCT-2	NOx	CEM		
Turbine - Gas Fired	HCT-2	VOC	0.0021	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-2	CO	0.082	lb/MMBtu	AP-42, Table 3.1-1
Small Engine - Gasoline	Gasoline Pump	NH3	NA		No factor available
Small Engine - Gasoline	Gasoline Pump	FPM	12.6	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	FPM-10	12.6	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	FPM-2.5	12.6	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	CPM	NA		
Small Engine - Gasoline	Gasoline Pump	SO ₂	10.6	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	NOx	205	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	VOC	382	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	CO	7900	lb/1000gal	FIRE Version 6.25

Input New Default HAPs (112b) and 112r Emission Factors Here

				Boilers						Combustion Turbines			
				Coal Combustion		Oil Combustion				Oil Combustion		Gas Combustion	
				EF (1) (lb/ton)	1-01-002-02/12 Reference	EF (2) (lb/MMBtu)	1-01-005-01 Reference	EF (3) (lb/1000 gal)	1-01-005-01 Reference	EF (7) (lb/MMBtu)	2-01-001-01 Reference	EF (8) (lb/MMBtu)	2-01-002-01 Reference
Pollutant	CAS #	112(b) ?	112(r) ?										
1,3 Butadiene	106-99-0	yes		0.00E+00		0.00E+00		0.00E+00		1.60E-05	9	4.30E-07	11
1,1,1-Trichloroethane	71-55-6	yes		2.00E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
2,3,7,8-Tetrachlorodibenzo p dioxin	1746-01-6	yes		1.43E-11	7	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	yes		5.10E-11	7	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
2,4-Dinitrotoluene	121-14-2	yes		2.80E-07	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
2-Chloroacetophenone	532-27-4	yes		7.00E-06	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Acetaldehyde	75-07-0	yes		5.70E-04	2	0.00E+00		0.00E+00		0.00E+00		4.00E-05	11
Acetophenone	98-86-2	yes		1.50E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Acrolein	107-02-8	yes		2.90E-04	2	0.00E+00		0.00E+00		0.00E+00		6.40E-06	11
Antimony	7440-36-0	yes		1.80E-05	3	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Arsenic	7440-38-2	yes		4.10E-04	3	4.00E-06	4	0.00E+00		1.10E-05	10	0.00E+00	
Benzene	1746-01-6	yes		1.30E-03	2	0.00E+00		0.00E+00		5.50E-05	9	1.20E-05	11
Benzyl chloride	100-44-7	yes		7.00E-04	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Beryllium	7440-41-7	yes		2.10E-05	3	3.00E-06	4	0.00E+00		3.10E-07	10	0.00E+00	
Biphenyl	92-52-4	yes		1.70E-06	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	yes		7.30E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Bromoform	75-25-2	yes		3.90E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Cadmium	7440-43-9	yes		5.10E-05	3	3.00E-06	4	0.00E+00		4.80E-06	10	0.00E+00	
Carbon disulfide	75-15-0	yes		1.30E-04	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Chlorobenzene	108-90-7	yes		2.20E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Chloroform	67-66-3	yes		5.90E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Chromium	7440-43-7	yes		2.60E-04	3	3.00E-06	4	0.00E+00		1.10E-05	10	0.00E+00	
Chromium (VI)	18540-29-9	yes		7.90E-05	3	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Cobalt	7440-48-4	yes		1.00E-04	3	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Cumene	98-82-8	yes		5.30E-06	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Cyanide	57-12-5	yes		2.50E-03	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Dichlorobenzene	25321-22-6	yes		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Dimethyl sulfate	77-78-1	yes		4.80E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Ethyl benzene	100-41-4	yes		9.40E-05	2	0.00E+00		0.00E+00		0.00E+00		3.20E-05	11
Ethyl chloride	75-00-3	yes		4.20E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Ethylene dibromide	106-93-4	yes		1.20E-06	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Ethylene dichloride	107-06-2	yes		4.00E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Ethylene glycol	107-21-1	yes		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Formaldehyde	50-00-0	yes		2.40E-04	2	0.00E+00		6.10E-02	5	2.80E-04	10	7.10E-04	11
Hexane	110-54-3	yes		6.70E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Hydrochloric acid	7647-01-0	yes		1.20E+00	8	0.00E+00		Plant Specific		0.00E+00		0.00E+00	
Hydrofluoric acid	7664-39-3	yes		1.50E-01	8	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Isophorone	78-59-1	yes		5.80E-04	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Lead	7439-92-1	yes		4.20E-04	3	9.00E-06	4	0.00E+00		1.40E-05	10	0.00E+00	
Manganese	7439-96-5	yes		4.90E-04	3	6.00E-06	4	0.00E+00		7.90E-04	10	0.00E+00	
Mercury	7439-97-6	yes		8.30E-05	3	3.00E-06	4	0.00E+00		1.20E-06	10	0.00E+00	
Methyl bromide	74-83-9	yes		1.60E-04	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Methyl chloride	74-87-3	yes		5.30E-04	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Methyl ethyl ketone	78-93-3	yes		3.90E-04	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Methyl hydrazine	60-34-4	yes		1.70E-04	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Methyl methacrylate	80-62-6	yes		2.00E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Methyl tert butyl ether	1634-04-4	yes		3.50E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Methylene chloride	75-09-2	yes		2.90E-04	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Naphthalene	91-20-3	yes		1.30E-05	1	0.00E+00		3.33E-04	6	3.50E-05	9	1.30E-06	11
Nickel	7440-02-0	yes		2.80E-04	3	3.00E-06	4	0.00E+00		4.60E-06	10	0.00E+00	
Phenol	108-95-2	yes		1.60E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Propionaldehyde	123-38-6	yes		3.80E-04	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Propylene oxide	76-56-9	yes	yes	0.00E+00		0.00E+00		0.00E+00		0.00E+00		2.90E-05	11
Selenium	7782-49-2	yes		1.30E-03	3	1.50E-05	4	0.00E+00		2.50E-05	10	0.00E+00	
Styrene	100-42-5	yes		2.50E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Tetrachloroethylene	127-18-4	yes		4.30E-05	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Toluene	108-88-3	yes		2.40E-04	2	0.00E+00		0.00E+00		0.00E+00		1.30E-04	11
Vinyl acetate	108-05-4	yes		7.60E-06	2	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Xylenes	1330-20-7	yes		3.70E-05	2	0.00E+00		0.00E+00		0.00E+00		6.40E-05	11
Acenaphthene	83-32-9	yes		5.10E-07	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Acenaphthylene	203-96-8	yes		2.50E-07	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Anthracene	120-12-7	yes		2.10E-07	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Benz(a)anthracene	56-55-3	yes		8.00E-08	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Benzo(a)pyrene	50-32-8	yes		3.80E-08	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Benzo(b)fluoranthene	205-99-2	yes		1.10E-07	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Benzo(ghi)perylene	191-24-2	yes		2.70E-08	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Benzo(k)fluoranthene	207-08-9	yes		1.10E-07	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Chrysene	218-01-9	yes		1.00E-07	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Dibenzo(a,h)anthracene	53-70-3	yes		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Fluoranthene	206-44-0	yes		7.10E-07	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Fluorene	86-73-7	yes		9.10E-07	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Indeno(1,2,3-cd)pyrene	193-39-5	yes		6.10E-08	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Phenanthrene	85-01-8	yes		2.70E-06	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	
Pyrene	129-00-0	yes		3.30E-07	1	0.00E+00		0.00E+00		0.00E+00		0.00E+00	

References

- 1 - AP-42 Table 1.1-13
- 2 - AP-42 Table 1.1-14
- 3 - AP-42 Table 1.1-18
- 4 - AP-42 Table 1.3-10
- 5 - AP-42 Table 1.3-8
- 6 - EPA FIRE 6.23
- 7 - AP-42 Table 1.1-12
- 8 - AP-42 Table 1.1-15
- 9 - AP-42 Table 3.1-4
- 10 - AP-42 Table 3.1-5
- 11 - AP-42 Table 3.1-3

Greenhouse Gas Emission Factors

40 CFR 98 Table C-1 and C-2

Fuel	Emission Factor (kg/MMBtu)			Default HHV mmBtu/gal
	CO ₂	N ₂ O	CH ₄	
Bituminous Coal	93.28	1.60E-03	1.10E-02	
Subbituminous Coal	97.17	1.60E-03	1.10E-02	
Natural Gas	53.06	1.00E-04	1.00E-03	
Distillate Fuel Oil No. 2	73.96	6.00E-04	3.00E-03	
Distillate Fuel Oil No. 6	75.10	6.00E-04	3.00E-03	
Kerosene	75.20	6.00E-04	3.00E-03	
Propane	62.87	6.00E-04	3.00E-03	
Gasoline	66.88	6.00E-04	3.00E-03	0.110
Used Oil	74.00	6.00E-04	3.00E-03	

Global Warming Potentials

CO ₂	124-38-9	1
N ₂ O	10024-97-2	265
CH ₄	74-82-8	28

Updated 3/25/25

Conversions

1 kg = 2.20462 lbs
1 mTon = 1.1023 ton

Criteria Pollutants Calculations

ATTACHMENT 1

Station: Dickerson
Reporting Year: 2024
Registration No: 15001940907
Name: CT 1
Fuel Type: No. 2 Fuel Oil

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	0.00	AP-42
Lead	7439-92-1	0.00	AP-42
NOx	10102-44-0	0.00	AP-42
FPM		0.00	AP-42
FPM10		0.00	AP-42
FPM2.5		0.00	AP-42
CPM		0.00	AP-42
TPM		0.00	AP-42
TPM10		0.00	AP-42
TPM2.5		0.00	AP-42
SOX	7446-09-5	0.00	AP-42
VOC		0.00	AP-42

ATTACHMENT 2

Station: Dickerson
Reporting Year: 2024
Registration No: 15182290362
Name: HCT 1
Fuel Type: No. 2 Fuel Oil

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	0.03	AP-42
Lead	7439-92-1	0.00	AP-42
NOx	10102-44-0	1.21	CEMS
FPM		0.04	AP-42
FPM10		0.04	AP-42
FPM2.5		0.04	AP-42
CPM		0.06	AP-42
TPM		0.10	AP-42
TPM10		0.10	AP-42
TPM2.5		0.10	AP-42
SOX	7446-09-5	0.34	CEMS
VOC		0.00	AP-42

Fuel Type: Natural Gas

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	37.78	AP-42
Lead	7439-92-1	0.00	AP-42
NOx	10102-44-0	49.99	CEMS
FPM		0.88	AP-42
FPM10		0.88	AP-42
FPM2.5		0.88	AP-42
CPM		2.17	AP-42
TPM		3.04	AP-42
TPM10		3.04	AP-42
TPM2.5		3.04	AP-42
SOX	7446-09-5	0.32	CEMS
VOC		0.97	AP-42

Unit Summary

Pollutant	CAS	Emissions Tons/Year
CO	630-08-0	37.81
Lead	7439-92-1	0.00
NOx	10102-44-0	51.20
FPM		0.91
FPM10		0.91
FPM2.5		0.91
CPM		2.23
TPM		3.14
TPM10		3.14
TPM2.5		3.14
SOX	7446-09-5	0.66
VOC		0.97

ATTACHMENT 3

Station: Dickerson
Reporting Year: 2024
Registration No: 15182290363
Name: HCT 2
Fuel Type: No. 2 Fuel Oil

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	0.01	AP-42
Lead	7439-92-1	0.00	AP-42
NOx	10102-44-0	0.50	CEMS
FPM		0.01	AP-42
FPM10		0.01	AP-42
FPM2.5		0.01	AP-42
CPM		0.02	AP-42
TPM		0.03	AP-42
TPM10		0.03	AP-42
TPM2.5		0.03	AP-42
SOX	7446-09-5	0.14	CEMS
VOC		0.00	AP-42

Fuel Type: Natural Gas

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	37.67	AP-42
Lead	7439-92-1	0.00	AP-42
NOx	10102-44-0	32.40	CEMS
FPM		0.87	AP-42
FPM10		0.87	AP-42
FPM2.5		0.87	AP-42
CPM		2.16	AP-42
TPM		3.03	AP-42
TPM10		3.03	AP-42
TPM2.5		3.03	AP-42
SOX	7446-09-5	0.22	CEMS
VOC		0.96	AP-42

Unit Summary

Pollutant	CAS	Emissions Tons/Year
CO	630-08-0	37.68
Lead	7439-92-1	0.00
NOx	10102-44-0	32.90
FPM		0.89
FPM10		0.89
FPM2.5		0.89
CPM		2.18
TPM		3.06
TPM10		3.06
TPM2.5		3.06
SOX	7446-09-5	0.36
VOC		0.97

ATTACHMENT 4

Station: Dickerson
Reporting Year: 2024
Registration No: 15001990062
Name: Gasoline Pump
Fuel Type: Gasoline

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	5.44	AP-42
Lead	7439-92-1	-	-
NOx	10102-44-0	0.14	AP-42
FPM		0.01	AP-42
FPM10		0.01	AP-42
FPM2.5		0.01	AP-42
CPM		-	-
TPM		0.01	AP-42
TPM10		0.01	AP-42
TPM2.5		0.01	AP-42
SOX	7446-09-5	0.01	AP-42
VOC		0.26	AP-42

ATTACHMENT 5

Station: Dickerson
Reporting Year: 2024

Station Summary

Pollutant	CAS	Emissions Tons/Year
CO	630-08-0	80.93
Lead	7439-92-1	0.00
NOx	10102-44-0	84.24
FPM		1.81
FPM10		1.81
FPM2.5		1.81
CPM		4.41
TPM		6.22
TPM10		6.22
TPM2.5		6.22
SOX	7446-09-5	1.03
VOC		2.20

ATTACHMENT 6

Station: Dickerson
Reporting Year: 2024

Typical Ozone Season Day (TOSD): April to September

Equipment Description/ Registration No.		Fuel Use	Hrs	Days	Hrs/Day	VOC (lb/day)	NOx (lb/day)
15001930001	Coal	0	0	0	0	0.00	0.00
Unit 1	Oil	0	0	0	0	0.00	0.00
15001930002	Coal	0	0	0	0	0.00	0.00
Unit 2	Oil	0	0	0	0	0.00	0.00
15001930003	Coal	0	0	0	0	0.00	0.00
Unit 3	Oil	0	0	0	0	0.00	0.00
15001940907	Oil	0	0	0	0	0.00	0.00
CT 1							
15182290362	Oil	69,300	566	86	7	19.32	1,006.98
HCT 1	Gas	752,760					
15182290363	Oil	5,040	515	69	7	21.83	730.43
HCT 2	Gas	683,870					
15001990062	Gasoline	688.85	1.5	6	0.25	43.86	23.54
Gasoline Pump							

Notes:

1. The gasoline pump fuel usage was assumed to be 50% of the total fuel usage for April-September.
2. Assumed gas engines run 15 min each month for test

GHG and Air Toxics Calculations

ATTACHMENT 1

Station: Dickerson
Reporting Year: 2024
Registration No: 15001940907
Name: CT 1

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO2	124-38-9	0.00	40 CFR 98
N2O	10024-97-2	0.00	40 CFR 98
CH4	74-82-8	0.00	40 CFR 98
1,3 Butadiene	106-99-0	0.00E+00	AP-42
1,1,1-Trichloroethane	71-55-6	-	-
2,3,7,8 -Tetrachlorodibenzo p dioxin	1746-01-6	-	-
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	-	-
2,4-Dinitrotoluene	121-14-2	-	-
2-Chloroacetophenone	532-27-4	-	-
Acetaldehyde	75-07-0	-	-
Acetophenone	98-86-2	-	-
Acrolein	107-02-8	-	-
Ammonia	7664-41-7	-	-
Antimony	7440-36-0	-	-
Arsenic	7440-38-2	0.00E+00	AP-42
Benzene	1746-01-6	0.00E+00	AP-42
Benzyl chloride	100-44-7	-	-
Beryllium	7440-41-7	0.00E+00	AP-42
Biphenyl	92-52-4	-	-
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	-	-
Bromoform	75-25-2	-	-
Cadmium	7440-43-9	0.00E+00	AP-42
Carbon disulfide	75-15-0	-	-
Chlorobenzene	108-90-7	-	-
Chloroform	67-66-3	-	-
Chromium	7440-43-7	0.00E+00	AP-42
Chromium (VI)	18540-29-9	-	-
Cobalt	7440-48-4	-	-
Cumene	98-82-8	-	-
Cyanide	57-12-5	-	-
Dichlorobenzene	25321-22-6	-	-
Dimethyl sulfate	77-78-1	-	-
Ethyl benzene	100-41-4	-	-
Ethyl chloride	75-00-3	-	-
Ethylene dibromide	106-93-4	-	-
Ethylene dichloride	107-06-2	-	-
Ethylene glycol	107-21-1	-	-
Formaldehyde	50-00-0	0.00E+00	AP-42
Hexane	110-54-3	-	-
Hydrochloric acid	7647-01-0	-	-
Hydrofluoric acid	7664-39-3	-	-
Isophorone	78-59-1	-	-
Manganese	7439-96-5	0.00E+00	AP-42
Mercury	7439-97-6	0.00E+00	AP-42
Methyl bromide	74-83-9	-	-
Methyl chloride	74-87-3	-	-
Methyl ethyl ketone	78-93-3	-	-
Methyl hydrazine	60-34-4	-	-
Methyl methacrylate	80-62-6	-	-
Methyl tert butyl ether	1634-04-4	-	-
Methylene chloride	75-09-2	-	-
Naphthalene	91-20-3	0.00E+00	AP-42
Nickel	7440-02-0	0.00E+00	AP-42
Phenol	108-95-2	-	-
Propionaldehyde	123-38-6	-	-
Propylene oxide	76-56-9	-	-
Selenium	7782-49-2	0.00E+00	AP-42
Styrene	100-42-5	-	-
Tetrachloroethylene	127-18-4	-	-
Toluene	108-88-3	-	-
Vinyl acetate	108-05-4	-	-
Xylenes	1330-20-7	-	-
Acenaphthene	83-32-9	-	-
Acenaphthylene	203-96-8	-	-
Anthracene	120-12-7	-	-
Benz(a)anthracene	56-55-3	-	-
Benzo(a)pyrene	50-32-8	-	-
Benzo(b)fluoranthene	205-99-2	-	-
Benzo(ghi)perylene	191-24-2	-	-
Benzo(k)fluoranthene	207-08-9	-	-
Chrysene	218-01-9	-	-
Dibenzo(a,h)anthracene	53-70-3	-	-
Fluoranthene	206-44-0	-	-
Fluorene	86-73-7	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	-	-
Phenanthrene	85-01-8	-	-
Pyrene	129-00-0	-	-

ATTACHMENT 2

Station: Dickerson
Reporting Year: 2024
Registration No: 15182290362
Name: HCT 1

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO2	124-38-9	56,298.50	CEMS
N2O	10024-97-2	0.11	40 CFR 98
CH4	74-82-8	1.08	40 CFR 98
1,3 Butadiene	106-99-0	3.38E-04	AP-42
1,1,1-Trichloroethane	71-55-6	-	-
2,3,7,8 -Tetrachlorodibenzo p dioxin	1746-01-6	-	-
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	-	-
2,4-Dinitrotoluene	121-14-2	-	-
2-Chloroacetophenone	532-27-4	-	-
Acetaldehyde	75-07-0	1.84E-02	AP-42
Acetophenone	98-86-2	-	-
Acrolein	107-02-8	2.95E-03	AP-42
Ammonia	7664-41-7	-	-
Antimony	7440-36-0	-	-
Arsenic	7440-38-2	9.64E-05	AP-42
Benzene	1746-01-6	6.01E-03	AP-42
Benzyl chloride	100-44-7	-	-
Beryllium	7440-41-7	2.72E-06	AP-42
Biphenyl	92-52-4	-	-
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	-	-
Bromoform	75-25-2	-	-
Cadmium	7440-43-9	4.21E-05	AP-42
Carbon disulfide	75-15-0	-	-
Chlorobenzene	108-90-7	-	-
Chloroform	67-66-3	-	-
Chromium	7440-43-7	9.64E-05	AP-42
Chromium (VI)	18540-29-9	-	-
Cobalt	7440-48-4	-	-
Cumene	98-82-8	-	-
Cyanide	57-12-5	-	-
Dichlorobenzene	25321-22-6	-	-
Dimethyl sulfate	77-78-1	-	-
Ethyl benzene	100-41-4	1.47E-02	AP-42
Ethyl chloride	75-00-3	-	-
Ethylene dibromide	106-93-4	-	-
Ethylene dichloride	107-06-2	-	-
Ethylene glycol	107-21-1	-	-
Formaldehyde	50-00-0	3.30E-01	AP-42
Hexane	110-54-3	-	-
Hydrochloric acid	7647-01-0	-	-
Hydrofluoric acid	7664-39-3	-	-
Isophorone	78-59-1	-	-
Manganese	7439-96-5	6.92E-03	AP-42
Mercury	7439-97-6	1.05E-05	AP-42
Methyl bromide	74-83-9	-	-
Methyl chloride	74-87-3	-	-
Methyl ethyl ketone	78-93-3	-	-
Methyl hydrazine	60-34-4	-	-
Methyl methacrylate	80-62-6	-	-
Methyl tert butyl ether	1634-04-4	-	-
Methylene chloride	75-09-2	-	-
Naphthalene	91-20-3	9.06E-04	AP-42
Nickel	7440-02-0	4.03E-05	AP-42
Phenol	108-95-2	-	-
Propionaldehyde	123-38-6	-	-
Propylene oxide	76-56-9	1.34E-02	-
Selenium	7782-49-2	2.19E-04	AP-42
Styrene	100-42-5	-	-
Tetrachloroethylene	127-18-4	-	-
Toluene	108-88-3	5.99E-02	AP-42
Vinyl acetate	108-05-4	-	-
Xylenes	1330-20-7	2.95E-02	-
Acenaphthene	83-32-9	-	-
Acenaphthylene	203-96-8	-	-
Anthracene	120-12-7	-	-
Benz(a)anthracene	56-55-3	-	-
Benzo(a)pyrene	50-32-8	-	-
Benzo(b)fluoranthene	205-99-2	-	-
Benzo(ghi)perylene	191-24-2	-	-
Benzo(k)fluoranthene	207-08-9	-	-
Chrysene	218-01-9	-	-
Dibenzo(a,h)anthracene	53-70-3	-	-
Fluoranthene	206-44-0	-	-
Fluorene	86-73-7	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	-	-
Phenanthrene	85-01-8	-	-
Pyrene	129-00-0	-	-

ATTACHMENT 3

Station: Dickerson
Reporting Year: 2024
Registration No: 15182290363
Name: HCT 2

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO2	124-38-9	54,146.40	CEMS
N2O	10024-97-2	0.10	40 CFR 98
CH4	74-82-8	1.01	40 CFR 98
1,3 Butadiene	106-99-0	2.44E-04	AP-42
1,1,1-Trichloroethane	71-55-6	-	-
2,3,7,8 -Tetrachlorodibenzo p dioxin	1746-01-6	-	-
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	-	-
2,4-Dinitrotoluene	121-14-2	-	-
2-Chloroacetophenone	532-27-4	-	-
Acetaldehyde	75-07-0	1.84E-02	AP-42
Acetophenone	98-86-2	-	-
Acrolein	107-02-8	2.94E-03	AP-42
Ammonia	7664-41-7	-	-
Antimony	7440-36-0	-	-
Arsenic	7440-38-2	3.17E-05	AP-42
Benzene	1746-01-6	5.67E-03	AP-42
Benzyl chloride	100-44-7	-	-
Beryllium	7440-41-7	8.94E-07	AP-42
Biphenyl	92-52-4	-	-
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	-	-
Bromoform	75-25-2	-	-
Cadmium	7440-43-9	1.38E-05	AP-42
Carbon disulfide	75-15-0	-	-
Chlorobenzene	108-90-7	-	-
Chloroform	67-66-3	-	-
Chromium	7440-43-7	3.17E-05	AP-42
Chromium (VI)	18540-29-9	-	-
Cobalt	7440-48-4	-	-
Cumene	98-82-8	-	-
Cyanide	57-12-5	-	-
Dichlorobenzene	25321-22-6	-	-
Dimethyl sulfate	77-78-1	-	-
Ethyl benzene	100-41-4	1.47E-02	AP-42
Ethyl chloride	75-00-3	-	-
Ethylene dibromide	106-93-4	-	-
Ethylene dichloride	107-06-2	-	-
Ethylene glycol	107-21-1	-	-
Formaldehyde	50-00-0	3.27E-01	AP-42
Hexane	110-54-3	-	-
Hydrochloric acid	7647-01-0	-	-
Hydrofluoric acid	7664-39-3	-	-
Isophorone	78-59-1	-	-
Manganese	7439-96-5	2.28E-03	AP-42
Mercury	7439-97-6	3.46E-06	AP-42
Methyl bromide	74-83-9	-	-
Methyl chloride	74-87-3	-	-
Methyl ethyl ketone	78-93-3	-	-
Methyl hydrazine	60-34-4	-	-
Methyl methacrylate	80-62-6	-	-
Methyl tert butyl ether	1634-04-4	-	-
Methylene chloride	75-09-2	-	-
Naphthalene	91-20-3	6.98E-04	AP-42
Nickel	7440-02-0	1.33E-05	AP-42
Phenol	108-95-2	-	-
Propionaldehyde	123-38-6	-	-
Propylene oxide	76-56-9	1.33E-02	-
Selenium	7782-49-2	7.21E-05	AP-42
Styrene	100-42-5	-	-
Tetrachloroethylene	127-18-4	-	-
Toluene	108-88-3	5.97E-02	AP-42
Vinyl acetate	108-05-4	-	-
Xylenes	1330-20-7	2.94E-02	AP-42
Acenaphthene	83-32-9	-	-
Acenaphthylene	203-96-8	-	-
Anthracene	120-12-7	-	-
Benz(a)anthracene	56-55-3	-	-
Benzo(a)pyrene	50-32-8	-	-
Benzo(b)fluoranthene	205-99-2	-	-
Benzo(ghi)perylene	191-24-2	-	-
Benzo(k)fluoranthene	207-08-9	-	-
Chrysene	218-01-9	-	-
Dibenzo(a,h)anthracene	53-70-3	-	-
Fluoranthene	206-44-0	-	-
Fluorene	86-73-7	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	-	-
Phenanthrene	85-01-8	-	-
Pyrene	129-00-0	-	-

ATTACHMENT 4

Station: Dickerson
Reporting Year: 2024
Registration No: 15001990062
Name: Gasoline Pump

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO2	124-38-9	11.93	40 CFR 98
N2O	10024-97-2	0.00	40 CFR 98
CH4	74-82-8	0.00	40 CFR 98
1,3 Butadiene	106-99-0	-	-
1,1,1-Trichloroethane	71-55-6	-	-
2,3,7,8 -Tetrachlorodibenzo p dioxin	1746-01-6	-	-
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	-	-
2,4-Dinitrotoluene	121-14-2	-	-
2-Chloroacetophenone	532-27-4	-	-
Acetaldehyde	75-07-0	-	-
Acetophenone	98-86-2	-	-
Acrolein	107-02-8	-	-
Ammonia	7664-41-7	-	-
Antimony	7440-36-0	-	-
Arsenic	7440-38-2	-	-
Benzene	1746-01-6	-	-
Benzyl chloride	100-44-7	-	-
Beryllium	7440-41-7	-	-
Biphenyl	92-52-4	-	-
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	-	-
Bromoform	75-25-2	-	-
Cadmium	7440-43-9	-	-
Carbon disulfide	75-15-0	-	-
Chlorobenzene	108-90-7	-	-
Chloroform	67-66-3	-	-
Chromium	7440-43-7	-	-
Chromium (VI)	18540-29-9	-	-
Cobalt	7440-48-4	-	-
Cumene	98-82-8	-	-
Cyanide	57-12-5	-	-
Dichlorobenzene	25321-22-6	-	-
Dimethyl sulfate	77-78-1	-	-
Ethyl benzene	100-41-4	-	-
Ethyl chloride	75-00-3	-	-
Ethylene dibromide	106-93-4	-	-
Ethylene dichloride	107-06-2	-	-
Ethylene glycol	107-21-1	-	-
Formaldehyde	50-00-0	-	-
Hexane	110-54-3	-	-
Hydrochloric acid	7647-01-0	-	-
Hydrofluoric acid	7664-39-3	-	-
Isophorone	78-59-1	-	-
Manganese	7439-96-5	-	-
Mercury	7439-97-6	-	-
Methyl bromide	74-83-9	-	-
Methyl chloride	74-87-3	-	-
Methyl ethyl ketone	78-93-3	-	-
Methyl hydrazine	60-34-4	-	-
Methyl methacrylate	80-62-6	-	-
Methyl tert butyl ether	1634-04-4	-	-
Methylene chloride	75-09-2	-	-
Naphthalene	91-20-3	-	-
Nickel	7440-02-0	-	-
Phenol	108-95-2	-	-
Propionaldehyde	123-38-6	-	-
Propylene oxide	76-56-9	-	-
Selenium	7782-49-2	-	-
Styrene	100-42-5	-	-
Tetrachloroethylene	127-18-4	-	-
Toluene	108-88-3	-	-
Vinyl acetate	108-05-4	-	-
Xylenes	1330-20-7	-	-
Acenaphthene	83-32-9	-	-
Acenaphthylene	203-96-8	-	-
Anthracene	120-12-7	-	-
Benz(a)anthracene	56-55-3	-	-
Benzo(a)pyrene	50-32-8	-	-
Benzo(b)fluoranthene	205-99-2	-	-
Benzo(ghi)perylene	191-24-2	-	-
Benzo(k)fluoranthene	207-08-9	-	-
Chrysene	218-01-9	-	-
Dibenzo(a,h)anthracene	53-70-3	-	-
Fluoranthene	206-44-0	-	-
Fluorene	86-73-7	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	-	-
Phenanthrene	85-01-8	-	-
Pyrene	129-00-0	-	-

ATTACHMENT 5

Station: Dickerson
Reporting Year: 2024

Station Summary

Pollutant	CAS	Emissions Tons/Year	Facility Threshold Tons/Year	Reportable? (Yes/No)
CO2	124-38-9	110,456.83	--	Yes
N2O	10024-97-2	0.22	--	Yes
CH4	74-82-8	2.09	--	Yes
1,3 Butadiene	106-99-0	5.82E-04	0.001	No
1,1,1-Trichloroethane	71-55-6	0.00E+00	10	No
2,3,7,8 -Tetrachlorodibenzo p dioxin	1746-01-6	0.00E+00	0.00000001	No
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	0.00E+00	0.00000001	No
2,4-Dinitrotoluene	121-14-2	0.00E+00	0.1	No
2-Chloroacetophenone	532-27-4	0.00E+00	0.01	No
Acetaldehyde	75-07-0	3.68E-02	0.1	No
Acetophenone	98-86-2	0.00E+00	1	No
Acrolein	107-02-8	5.89E-03	0.01	No
Ammonia	7664-41-7	0.00E+00	1.00	No
Antimony	7440-36-0	0.00E+00	0.01	No
Arsenic	7440-38-2	1.28E-04	0.0001	Yes
Benzene	1746-01-6	1.17E-02	0.1	No
Benzyl chloride	100-44-7	0.00E+00	0.1	No
Beryllium	7440-41-7	3.61E-06	0.0001	No
Biphenyl	92-52-4	0.00E+00	0.1	No
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.00E+00	0.1	No
Bromoform	75-25-2	0.00E+00	0.1	No
Cadmium	7440-43-9	5.59E-05	0.0001	No
Carbon disulfide	75-15-0	0.00E+00	1	No
Chlorobenzene	108-90-7	0.00E+00	1	No
Chloroform	67-66-3	0.00E+00	0.01	No
Chromium	7440-43-7	1.28E-04	0.01	No
Chromium (VI)	18540-29-9	0.00E+00	0.00001	No
Cobalt	7440-48-4	0.00E+00	0.001	No
Cumene	98-82-8	0.00E+00	10	No
Cyanide	57-12-5	0.00E+00	0.1	No
Dichlorobenzene	25321-22-6	0.00E+00	0.1	No
Dimethyl sulfate	77-78-1	0.00E+00	0.01	No
Ethyl benzene	100-41-4	2.94E-02	10	No
Ethyl chloride	75-00-3	0.00E+00	0.01	No
Ethylene dibromide	106-93-4	0.00E+00	0.001	No
Ethylene dichloride	107-06-2	0.00E+00	0.01	No
Ethylene glycol	107-21-1	0.00E+00	1	No
Formaldehyde	50-00-0	6.57E-01	0.01	Yes
Hexane	110-54-3	0.00E+00	10	No
Hydrochloric acid	7647-01-0	0.00E+00	0.1	No
Hydrofluoric acid	7664-39-3	0.00E+00	0.1	No
Isophorone	78-59-1	0.00E+00	1	No
Manganese	7439-96-5	9.20E-03	0.01	No
Mercury	7439-97-6	1.40E-05	0.001	No
Methyl bromide	74-83-9	0.00E+00	0.01	No
Methyl chloride	74-87-3	0.00E+00	0.1	No
Methyl ethyl ketone	78-93-3	0.00E+00	10	No
Methyl hydrazine	60-34-4	0.00E+00	0.001	No
Methyl methacrylate	80-62-6	0.00E+00	10	No
Methyl tert butyl ether	1634-04-4	0.00E+00	10	No
Methylene chloride	75-09-2	0.00E+00	1	No
Naphthalene	91-20-3	1.60E-03	1	No
Nickel	7440-02-0	5.36E-05	0.001	No
Phenol	108-95-2	0.00E+00	1	No
Propionaldehyde	123-38-6	0.00E+00	0.1	No
Propylene oxide	76-56-9	2.67E-02	0.1	No
Selenium	7782-49-2	2.91E-04	0.01	No
Styrene	100-42-5	0.00E+00	1	No
Tetrachloroethylene	127-18-4	0.00E+00	10	No
Toluene	108-88-3	1.20E-01	10	No
Vinyl acetate	108-05-4	0.00E+00	1	No
Xylenes	1330-20-7	5.89E-02	10	No
Acenaphthene	83-32-9	0.00E+00	0.01	No
Acenaphthylene	203-96-8	0.00E+00	0.1	No
Anthracene	120-12-7	0.00E+00	0.01	No
Benz(a)anthracene	56-55-3	0.00E+00	0.001	No
Benzo(a)pyrene	50-32-8	0.00E+00	0.0001	No
Benzo(b)fluoranthene	205-99-2	0.00E+00	0.001	No
Benzo(ghi)perylene	191-24-2	0.00E+00	0.01	No
Benzo(k)fluoranthene	207-08-9	0.00E+00	0.01	No
Chrysene	218-01-9	0.00E+00	0.01	No
Dibenzo(a,h)anthracene	53-70-3	0.00E+00	0.0001	No
Fluoranthene	206-44-0	0.00E+00	0.1	No
Fluorene	86-73-7	0.00E+00	0.01	No
Indeno(1,2,3-cd)pyrene	193-39-5	0.00E+00	0.001	No
Phenanthrene	85-01-8	0.00E+00	0.01	No
Pyrene	129-00-0	0.00E+00	0.01	No

ATTACHMENT F

2024 ANNUAL TITLE V COMPLIANCE CERTIFICATION

Dickerson Power, LLC
21230 Martinsburg Road
Dickerson, MD 20842

March 31, 2025

Mr. Daniel Davis
Maryland Department of the Environment
Air Quality Compliance Program
Air and Radiation Administration
1800 Washington Boulevard, Suite 715
Baltimore, Maryland 21230-1720

And

Mr. Paul Arnold
Office of Enforcement and Permit Review (3AP20)
U.S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Via Electronic Mail

RE: Dickerson Power, LLC 2024 Title V Permit Certification

Dear Mr. Davis and Mr. Arnold:

Enclosed please find Dickerson Power, LLC 2024 Title V Permit Annual Certification.

Please feel free to contact me at (301) 691-5119 if there any questions about the enclosed certification.

Sincerely,

Westley Curtis
EHS Manager

Enclosures

cc: J. Simpson, Plant Manager - Dickerson
A. Nishida, AECOM
W. Baggett, AECOM



OMB No. 2060-0336, Expires 11/30/2025

Federal Operating Permit Program (40 CFR Part 71)
ANNUAL COMPLIANCE CERTIFICATION (A-COMP)

A. GENERAL INFORMATION

Permit No. 24-031-2716

Reporting Period: Beg 1 / 1 / 2024 End 12 / 31 / 2024

Source / Company Name Dickerson Power LLC

Mailing Address: Street or P.O. Box 21230 Martinsburg Road

City Dickerson State MD ZIP 20842 -

Contact person Westley Curtis Title EHS Manager

Telephone (301) 691 – 5119 Ext.

Continued on next page

B. COMPLIANCE STATUS

Describe the compliance status of each permit term for the reporting period. Copy this page as many times as necessary to cover all permit terms and conditions.

Emission Unit ID(s): Facility

Permit Term (Describe requirements and cross-reference): Section II.8 Permit Availability

The Permittee shall maintain this Part 70 permit in the vicinity of the facility for which it was issued, unless it is not practical to do so, and make this permit immediately available to officials of the Department upon request. **[COMAR 26.11.02.13G]**

Compliance Methods for the Above (Description and Citation): The Title V permit is available as a hard copy and electronically at the facility. If requested, the permit can be immediately made available to MDE.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Facility

Permit Term (Describe requirements and cross-reference): Section II.17 Fee Payment

- a. The fee for this Part 70 permit is as prescribed in Regulation .19 of COMAR 26.11.02.
- b. The fee is due on and shall be paid on or before each 12-month anniversary date of the permit. **[COMAR 26.11.02.16A(2) & A(5)(b)]**

Compliance Methods for the Above (Description and Citation): Permit fees were paid in 2024.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Facility

Permit Term (Describe requirements and cross-reference): Section III.4 – Report of Excess Emissions and Deviations

- (a) Report any deviation from permit requirements that could endanger human health or the environment, by orally notifying the Department immediately upon discovery of the deviation.
 - (b) Promptly report all occurrences of excess emissions that are expected to last for one hour or longer by orally notifying the Department of the onset and termination of the occurrence.
 - (c) When requested by the Department the Permittee shall report all deviations from permit conditions, including those attributed to malfunctions as defined in COMAR 26.11.01.07A, within 5 days of the request by submitting a written description of the deviation to the Department. The written report shall include the cause, dates and times of the onset and termination of the deviation, and an account of all actions planned or taken to reduce, eliminate, and prevent recurrence of the deviation.
 - (d) The Permittee shall submit to the Department semi-annual monitoring reports that confirm that all required monitoring was performed, and that provide accounts of all deviations from permit requirements that occurred during the reporting periods. Reporting periods shall be January 1 through June 30 and July 1 through December 31, and reports shall be submitted within 30 days of the end of each reporting period. Each account of deviation shall include a description of the deviation, the dates and times of onset and termination, identification of the person who observed or discovered the deviation, causes and corrective actions taken, and actions taken to prevent recurrence. If no deviations from permit conditions occurred during a reporting period, the Permittee shall submit a written report that so states.
 - (e) When requested by the Department, the Permittee shall submit a written report to the Department within 10 days of receiving the request concerning an occurrence of excess emissions. The report shall contain the information required in COMAR 26.11.01.07D(2).
- [COMAR 26.11.01.07 & 26.11.03.06C(7)]**

Compliance Methods for the Above (Description and Citation): The facility did not have any excess emissions or deviations from requirements of this permit during CY 2024 that required oral notification. Semi-annual reports were submitted on 1/30/24 and 7/29/24 covering the period of July-December 2023 and January-June 2024 respectively, which contained all required information listed above.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Facility

Permit Term (Describe requirements and cross-reference): Section III.6 General Testing Requirements & III.7 Emissions Test Methods

III-6. The Department may require the Permittee to conduct, or have conducted, testing to determine compliance with this Part 70 permit. The Department, at its option, may witness or conduct these tests. This testing shall be done at a reasonable time, and all information gathered during a testing operation shall be provided to the Department. **[COMAR 26.11.01.04]**

III-7. Compliance with the emissions standards and limitations in this Part 70 permit shall be determined by the test methods designated and described below or other test methods submitted to and approved by the Department.

(a) 40 CFR 60, Appendix A

(b) 40 CFR 51, Appendix M

(c) The Department's Technical Memorandum 91-01 "Test Methods and Equipment Specifications for Stationary Sources", (January 1991), as amended through Supplement 3, (October 1, 1997) [No longer used by MDE.] **[COMAR 26.11.01.04]**

Compliance Methods for the Above (Description and Citation): The facility has performed all its emissions testing according to the test methods described in the sections listed above and provided MDE with advance notice of the testing scheduled.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Facility

Permit Term (Describe requirements and cross-reference): Sections III-8, III-9, & III-10 – Reports & Responsible Official Certification

III-8 Emission Certification Report – The Permittee shall certify actual annual emissions of regulated pollutants from the facility on a calendar year basis. The certification shall be on forms obtained from the Department and submitted to the Department not later than April 1 of the year following the year for which the certification is required. **[COMAR 26.11.01.05, 26.11.02.19C-D]**

III-9 Compliance Certification Report – The Permittee shall submit to the Department and EPA Region III a report certifying compliance with each term of this Part 70 permit including each applicable standard, emissions limitation, and work practice for the previous calendar year by April 1 of each year. **[COMAR 26.11.03.06G(6)-(7)]**

III-10 Certification by Responsible Official – All application forms, reports, and compliance certifications submitted pursuant to this permit shall be certified by a responsible official as to truth, accuracy, and completeness. The Permittee shall expeditiously notify the Department of an appointment of a new responsible official. **[COMAR 26.11.02.02F]**

Compliance Methods for the Above (Description and Citation): The CY 2023 Emissions Certification Report and Compliance Certification Report were certified by the Responsible Official and submitted to MDE on March 29, 2024.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Facility

Permit Term (Describe requirements and cross-reference): Section III-11 Sampling and Emissions Testing Record Keeping

The Permittee shall gather and retain the following information when sampling and testing for compliance demonstrations:

- (a) The location as specified in this permit, and the date and time that samples and measurements are taken.
- (b) All pertinent operating conditions existing at the time that samples and measurements are taken.
- (c) The date that each analysis of a sample or emissions test is performed and the name of the person taking the sample or performing the emissions test.
- (d) The identity of the Permittee, individual, or other entity that performed the analysis.
- (e) The analytical techniques and methods used.
- (f) The results of each analysis. **[COMAR 26.11.03.06C(5)]**

Compliance Methods for the Above (Description and Citation): The facility submitted quarterly reports on January 30, 2024, April 26, 2024, July 29, 2024, and October 28, 2024 demonstrating compliance with all requirements mentioned above for sampling and emissions testing record keeping.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Facility

Permit Term (Describe requirements and cross-reference): Section III-12 General Recordkeeping

The Permittee shall retain records of all monitoring data and information that support the compliance certification for a period of five (5) years from the date that the monitoring, sample measurement, application, report or emissions test was completed or submitted to the Department. **[COMAR 26.11.03.06C(6)]**

Compliance Methods for the Above (Description and Citation): The facility maintains records of monitoring data and information that support the compliance certification for at least five years from the date that the monitoring, sample measurement, application, report or emissions test was completed or submitted to the Department.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Facility

Permit Term (Describe requirements and cross-reference): Section III Miscellaneous

1. PM from Construction & Demolition – The Permittee shall not cause or permit any building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. **[COMAR 26.11.06.03D]**
2. Open Burning – Except as provided in COMAR 26.11.07.04, the Permittee shall not cause or permit an open fire from June 1 through August 31 of any calendar year. Prior to any open burning, the Permittee shall request and receive approval from the Department. **[COMAR 26.11.07]**
13. General Conformity – The Permittee shall comply with general conformity requirements. **[40CFR93, Subpart B & COMAR 26.11.26.09]**
14. Asbestos Provisions – The Permittee shall comply with 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility. **[40CFR61, Subpart M]**

Compliance Methods for the Above (Description and Citation): The facility did not engage in activities related to particulate matter, open burning, or asbestos that required permission from or reporting to MDE in 2024. No permit changes occurred that required a conformity determination.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Facility

Permit Term (Describe requirements and cross-reference): Section III.16 Acid Rain Permit

The Permittee shall comply with the provisions and all applicable requirements of the renewal Phase II Acid Rain Permit, for the affected units that are being issued in conjunction with this permit.

Compliance Methods for the Above (Description and Citation): The facility complied with the requirements of the Acid Rain Permit in 2024 by holding and surrendering sufficient SO₂ allowances to cover emissions of ARP-affected units at the plant.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Unit DCT 1

Permit Term (Describe requirements and cross-reference): Table IV-1, Section 1.1A, 1.3A, 1.5A - Visible Emissions

1.1A In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers. **[COMAR 26.11.09.05]**

1.3A Permittee shall verify that there are no visible emissions when operating. An observer shall perform EPA Reference Method 9 observation of stack emissions for 18-minute period once for every 168-hours of operation or at a minimum once per calendar year. If the turbine operates less than 100 hours in a calendar year, the requirement is waived.

1.5A The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, "Report of Excess Emissions and Deviations". **[COMAR 26.11.03.06C]**.

Compliance Methods for the Above (Description and Citation): The unit has been retired since 10/23/2022. A Method 9 was not required.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Units DCT1

Permit Term (Describe requirements and cross-reference): Table IV-1, Section 1.1B, 1.3B, 1.5B - SO₂ Control

1.1B Sulfur Content Limitations for Fuel. A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations:

(b) Distillate fuel oils, 0.3 percent **[COMAR 26.11.09.07]**

1.3B The permittee shall obtain a certification from the fuel supplier indicating that the oil complies with sulfur content limitation. **[COMAR 26.11.03.06C]**

1.5B The Permittee shall report fuel supplier certifications to the Department upon request. **[COMAR 26.11.09.07C]**

Compliance Methods for the Above (Description and Citation): No fuel was received or burned in DCT1 in 2024, as the unit is retired.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Unit DCT1

Permit Term (Describe requirements and cross-reference): Table IV-2, Sections 1.1C, 1.2C, & 1.5C - NO_x Control

1.1C For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually. **[COMAR 26.11.09.08G]**

1.2C For engines that operate more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion. The permittee shall calculate the capacity factor of the engine within 30 days after the end of each month. **[COMAR 26.11.09.08G(1)(b)]**

1.5C Provide certification of the capacity factor of the equipment to the Department in the support information provided with the Annual Emissions Certification Report. **[COMAR 26.11.03.06C]**

Compliance Methods for the Above (Description and Citation): DCT1 did not run in 2024, therefore no combustion analysis & optimization was performed, and the capacity factor is zero. Annual capacity factors for the plant are being submitted to MDE with the Dickerson CY 2024 Emission Certification Report as well as this annual compliance report.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Units DCT1

Permit Term (Describe requirements and cross-reference): Table IV-2, Sections 1.4A-1.4C – Recordkeeping Requirements

1.4A Visible Emissions - The Permittee shall maintain records of the results of visual emissions observations for a period of at least 5 years. **[COMAR 26.11.03.06C]**

1.4B SO₂ Emissions - The Permittee shall retain fuel supplier certifications stating that the fuel oil is in compliance with the fuel sulfur content limitation for at least 5 years. **[COMAR 26.11.03.06C].**

1.4C NO_x RACT Requirements - The Permittee shall maintain the results of the combustion analysis and any stack tests at the site for at least 5 years and make these results available to the Department and the EPA upon request. **[COMAR 26.11.09.08G(1)(c) and 26.11.03.06C]**

Compliance Methods for the Above (Description and Citation): DCT1 is retired, therefore no new records were required to be retained in CY 2024. Historical records are being stored at the plant.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Unit HCT 1&2

Permit Term (Describe requirements and cross-reference): Table IV-3, Section 2.1A, 2.3A, 2.5A - Visible Emissions

2.1A In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers. **[COMAR 26.11.09.05A(2)]**

Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty-minute period. **[COMAR 26.11.09.05A(3)]**

2.3A Permittee shall verify that there are no visible emissions when burning No.2 fuel oil. An observer shall perform an EPA Reference Method 9 observation of stack emissions for 18-minute period at least once every 168-hours of operation on oil or at a minimum once per calendar year. The requirement for the observation is waived if no fuel oil is burned in the combustion turbines during a calendar year. **[COMAR 26.11.03.06C]**

2.5A The Permittee shall report incidents of visible emissions in the semi-annual Excess Emissions Report, per Section III-4. **[COMAR 26.11.03.06C]**.

Compliance Methods for the Above (Description and Citation): Method 9 observations were performed on both HCTs while burning oil on December 19, 2024, in accordance with the above requirement. The visible emissions limit was met, therefore no excess emissions were reported.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Unit HCT 1&2

Permit Term (Describe requirements and cross-reference): Table IV-2, Section 2.1B, 2.2B, 2.3B, & Section 2.5B – SO₂ Control

2.1B(1) PSD / CPCN Order No. 68851 (Case 8063)

- Sulfur in fuel is limited to no more than 0.3% sulfur content by weight. **[COMAR 26.11.09.07A & Condition 27]**

- Sulfur emissions limited to 34 pounds per hour per combustion turbine when firing natural gas and 579 pounds per hour when firing distillate fuel oil. **[Condition 17]**

- Total annual emissions of SO₂ from the two turbines are limited to 1,249 tons in any consecutive 12-month period. **[Condition 18]**

2.1B(2) NSPS – Sulfur in fuel content is limited to 0.8%. **[40CFR §60.333]**

2.1B(3) Acid Rain Provisions – The Permittee shall comply with the requirements of the renewal Phase II Acid Rain Permit issued in conjunction with this Part 70 permit. **[Acid Rain Permit, Appendix A]**

2.2B The Permittee shall comply with the NSPS fuel oil, gas testing and sampling requirements and Acid Rain Monitoring Requirements. **[40 CFR§60.334, CPCN Condition 16, & 40 CFR Appendix B]**

2.3B The Permittee shall comply with the fuel flow and heat input monitoring requirements. **[40 CFR 75 Appendix D]**

2.5B The Permittee shall submit quarterly reports to the Department and the Public Service Commission. **[40CFR §60.334(j) & CPCN Condition 28]**

Compliance Methods for the Above (Description and Citation): The facility submitted quarterly SO₂ data that followed Part 75 Appendix D methodology for Units HCT 1&2 in 2024. Sufficient emissions allowances were held in the facility accounts to comply with the 2023 true-up for the EPA Acid Rain Program in March 2024.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Unit HCT 1&2

Permit Term (Describe requirements and cross-reference): Table IV-2, Section 2.1C & 2.2C - NO_x Control

2.1C(1) NO_x RACT – For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually [COMAR 26.11.09.08G]

2.1C(2) CPCN

- NO_x rate emissions limited to no more than 42 parts per million dry (ppmvd) at 15 percent O₂ when firing natural gas. When firing No. 2 fuel oil, emissions, in ppmvd at 15 percent O₂ will be limited to no more than:

$$57 \text{ for } N \leq 0.015 \text{ and } 57 + 400N \text{ for } N > 0.015$$

where N is the nitrogen content of the fuel in percent by weight. [Condition 15]

- Maximum moisturization will be used to control NO_x emissions from the combustion turbines. [Condition 15]

- NO_x mass emissions from each combustion turbine is limited to 321 pounds per hour when firing natural gas and 608 pounds per hour when firing distillate fuel oil. Total annual emissions of NO_x from the two turbines are limited to 1,311 tons per consecutive 12-month period. [Condition 17 & 18]

- Annual average nitrogen content of the fuel oil burned in the combustion turbines shall not be more than 0.05% by weight. [Condition 26]

2.1C(3) NSPS – No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of: $STD = (0.0075 \times (14.4N)) + F$ [40 CFR §60.332]

2.1C(4) Acid Rain Provisions – These units are not subject to a NO_x limitation under Acid Rain because they are not coal-fired. However, the Permittee is required to comply with the continuous NO_x monitoring requirement of 40 CFR Part 75 and associated record keeping and reporting requirements. [Acid Rain Permit, 40 CFR75 Subpart G]

2.2C(1) NO_x RACT – If the gas turbine operates more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion at least once annually. [COMAR 26.11.09.08G(1)(b)].

2.2C(2)&(3) – The Permittee shall conduct NO_x testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. [40CFR75 Appendix E]

Compliance Methods for the Above (Description and Citation): HCT-1 operated 677.5 hours and HCT-2 operated 671.9 hours in 2024. Combustion analyses were completed on HCT-1 on 5/18/2024 and 12/20/2024, and on HCT-2 on 5/29/2024. NO_x emissions limits were met through water injection and no deviations of water to fuel ratio occurred in 2024. No NO_x stack tests were required in 2024.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Unit HCT 1&2

Permit Term (Describe requirements and cross-reference): Table IV-2, Section 2.3C & Section 2.5C – NO_x Control

2.3C(1) NO_x RACT – The Permittee shall calculate the capacity factor of the engine within 30 days after the end of each month. **[COMAR 26.11.03.06C]**.

2.3C(2)&(3) PSD & NSPS – The Permittee shall monitor the water to fuel ratio for NSPS Subpart GG and operating of PEM under Acid Rain Part 75 requirements. **[40CFR 60.334 & 40CFR Part 75 Appendix E]**

2.5C(1) NO_x RACT – The Permittee shall provide certification of the annual capacity factor of the equipment to the Department with the support documentation in the Annual Emission Certification Report. **[COMAR 26.11.09.08G(1)(a), COMAR 26.11.03.06C]**.

2.5C(2) PSD – The Permittee shall report quarterly to the Maryland Air and Radiation Administration and the Public Service Commission, any one-hour period during which the average water-to-fuel ratio fell below the water-to-fuel ratio used to demonstrate compliance with the NO_x emission concentration limits given in condition No. 15.
[CPCN Conditions 16 & 28]

2.5C(3) NSPS – The Permittee shall report quarterly, to the Department, water-to-fuel ratios, hours of operation (oil and natural gas), fuel N content, and total NO_x emissions.
[40CFR §60.334]

Compliance Methods for the Above (Description and Citation): Quarterly reports with water-to-fuel deviations listed were submitted by the facility on 1/30/24, 4/26/24, 7/29/24, and 10/28/24. HCT1&2 capacity factors are being submitted with this report and the ECR.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Unit HCT 1&2

Permit Term (Describe requirements and cross-reference): Table IV-2, Sections 2.1D-F, 2.3D-F, & 2.5D-F – CO, VOC, and PM Control

2.1D CO Control – Limits carbon monoxide emissions to 90 pounds per hour per combustion turbine when firing natural gas and 91 pounds per hour when firing distillate fuel oil. Total annual emissions of carbon monoxide from the two turbines are limited to 263 tons per consecutive 12-month period. **[CPCN Conditions 17 & 18]**

2.1E VOC Control – Limits VOC emissions to 2 pounds per hour per combustion turbine when firing natural gas and 4 pounds per hour when firing distillate fuel oil. Total annual emissions of VOC from the two turbines are limited to 9.2 tons per consecutive 12-month period. **[CPCN Conditions 17 & 18]**

2.1F PM Control – Limits PM10 and total particulates emissions to 21 pounds per hour per combustion turbine when firing natural gas and 27 pounds per hour when firing distillate fuel oil. Total annual emissions of particulates from the two turbines are limited to 60 tons per consecutive 12-month period. **[CPCN Conditions 17 & 18]**

2.3D-F The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they continue to operate as designed. **[COMAR 26.11.03.06C]**

2.5D-F The Permittee shall submit records of maintenance to the Department upon request. **[COMAR 26.11.03.06C]**

Compliance Methods for the Above (Description and Citation): The CO, VOC, and PM limits were met on HCT 1&2, through preventive maintenance conducted on the units during 2024.

Emission Unit ID(s): Unit HCT 1&2

Permit Term (Describe requirements and cross-reference): Table IV-2, Sections 2.1G, 2.4G, and 2.5G - Operating Limitation

2.1G The combustion turbines shall generate electricity using natural gas only. This requirement shall not apply during those times when the delivered cost per million Btu of natural gas exceeds the delivered cost per million Btu of No. 2 oil by 15 percent or during those times when the natural gas supply to the unit is curtailed or interrupted under the delivery contract during maintenance and repair. At such times, the unit shall use No. 2 oil only. Natural gas service curtailments or interruptions shall be verified by a letter each year from the unit's natural gas supplier identifying the dates on which gas service was restricted. **[CPCN Condition 13]**

2.4G The Permittee shall maintain records to support the basis for burning fuel oil, either those times when the delivered cost per million Btu of natural gas exceeds the delivered cost per million Btu of No. 2 oil by 15 percent or during those times when the natural gas supply to the unit is curtailed or interrupted under the delivery contract during maintenance and repair. **[CPCN Condition 13]**

2.5G Natural gas service curtailments or interruptions shall be verified by a letter each year from the unit's natural gas supplier. **[CPCN Condition 13]**

Compliance Methods for the Above (Description and Citation): The facility has maintained records of all such instances when No. 2 oil was burned. Records of such instances during CY 2024 were provided in the 4th quarterly report submitted in January 2025.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): Unit HCT 1&2

Permit Term (Describe requirements and cross-reference): Table IV-2, Sections 2.4A-F – Recordkeeping Requirements

2.4A Visible Emissions – The Permittee shall maintain a copy of the visible emissions observations on site for at least five years and make available to the Department upon request. **[COMAR 26.11.03.06C]**

2.4B SO₂ Control – The Permittee shall maintain a file of all measurements of testing and monitoring. **[40CFR §60.7(f)]**

2.4C NO_x Control –

(1) NO_x RACT - The Permittee shall maintain the results of the combustion analysis and any stack tests at the site for at least 5 years and make these results available to the Department and the EPA upon request. The Permittee shall maintain records of the calculations of the capacity factors. **[COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C]**

(2)&(3) CPCN & NSPS – The Permittee shall maintain records of test results, analyses of nitrogen content of fuel, the water to fuel ratio, and hours of operation. **[CPCN Condition 16 & 40CFR §60.7(f)]**

2.4D-F CO, VOC, & PM Control – The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. **[COMAR 26.11.03.06C]**

Compliance Methods for the Above (Description and Citation): The Facility retained required records produced during permitted operation of HCT 1&2 during CY 2024.

Emission Unit ID(s): Units HCT 1&2

Permit Term (Describe requirements and cross-reference): Table IV-3, Sections 3.1, 3.3, 3.4, & 3.5 - Cross State Air Pollution Rule (CSAPR)

A. 40 CFR Part 97 Subpart AAAAA - NO_x Annual Trading Program - The Permittee shall comply with the monitoring, recordkeeping, and reporting requirements found in §97.406, §97.430, §97.433 and §97.434 for the NO_x Annual Trading Program.

B. 40 CFR Part 97 Subpart CCCCC - SO₂ Group 1 Trading Program - The Permittee shall comply with the monitoring, recordkeeping, and reporting requirements found in §97.606, §97.630, §97.633 and §97.634 for the SO₂ Annual Trading Program.

C. 40 CFR Part 97 Subpart GGGGG - CSAPR NO_x Ozone Season Group 3 Trading Program - The Permittee shall comply with the monitoring, recordkeeping, and reporting requirements found in §97.1006, §97.1030, and §97.1034 for the NO_x Ozone Season Group 3 Annual Trading Program.

Compliance Methods for the Above (Description and Citation): HCT 1&2 complied with the applicable monitoring, recordkeeping, and reporting requirements for the three CSAPR Trading programs in 2024. Quarterly electronic data reports (EDRs) were submitted to EPA. Sufficient allowances were held in the Facility account at the close of the 2023 Compliance True-Up in June 2024 to comply with the CSAPR program.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

C. DEVIATIONS FROM PERMIT TERMS AND CONDITIONS

Report all deviations from permit terms (whether reported previously or not) that occurred during the permit term. Cross-reference deviations already reported in the six-month report. Indicate whether each deviation is a "possible exception to compliance." Start and end period of each deviation should be in mo/day/yr, hr:min format (24-hour clock). Also, specify the date when the written deviation report was submitted (If written report required, but not submitted, leave the date field blank).

Permit Term for Which There was a Deviation:

There were no deviations in CY2024 at this facility.

Emission Units (unit IDs):

Deviation Start ____/____/____ ____:____ End: ____/____/____ ____:____

Date Written Report Submitted ____/____/____

INSTRUCTIONS FOR A-COMP ANNUAL COMPLIANCE CERTIFICATION

Information Collection Burden Estimates

The public reporting and recordkeeping burden for this collection of information is estimated to average 247 hours per respondent per year. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

DETAILED INSTRUCTIONS

Submit this form along with a certification of truth, accuracy and completeness by a responsible official on an annual basis.

Section A (General Information)

Name and address should be consistent with information provided previously. The contact person should be a person familiar with the day-to-day operation of the facility, such as a plant site manager or other individual, who should be available to be contacted by the permitting authority. If there is more than one contact person, list the others on an attachment.

The reporting period must be at least every 12 months, but your permit may require this more frequently.

Section B (Compliance Status)

Description of Permit Term: Include each permit terms that imposes a requirement or action (emission limitations, standards, monitoring, recordkeeping, reporting, and other requirements on one or more emission units or on the facility. You will likely have to complete this section numerous times to include all requirements in the permit.

The emissions unit ID(s) should be those defined in the permit or in section I of form GIS. If the requirements, including compliance methods, apply in the same way to multiple emission units, you may list multiple units for a particular requirement. Emission units and requirements may be grouped if they apply the same way at all units in the group, the same compliance methods apply to all, and all units have the same compliance status.

Citations to the requirements should unambiguously identify the permit term to the lowest level.

Compliance Methods: List all compliance methods (monitoring, recordkeeping and reporting) you used to determine compliance with the permit term described above. Also, describe and cross-reference these compliance methods.

To describe monitoring, indicate the monitoring device, what is being monitored, averaging time, frequency, and cross-reference the permit term. To describe recordkeeping, describe the records kept, collection frequency, and cross-reference the permit term. Please indicate if monitoring data results or compliance records are kept on-site rather than reported. To describe reporting requirements, describe what is reported, when it is reported, and cross-reference the permit term.

The citation or cross-reference here must unambiguously identify the requirement to the lowest

level.

Compliance Status: For each permit requirement and its associated compliance methods, indicate whether there was intermittent or continuous compliance (check one) during the reporting period. You should consider all available information or knowledge that you have when evaluating this, including compliance methods required by the permit and “credible evidence” (e.g., non-reference test methods and information “readily available” to you). You are always free to include written explanations and other information to clarify your conclusion regarding compliance status.

You must include permit terms that were not effective or not applicable (e.g., future-effective requirements, compliance options, and alternative scenarios). You may certify to continuous compliance for these if there is no evidence of noncompliance.

Absent evidence to the contrary, you may certify continuous compliance based on the data provided by the compliance methods, provided you did not fail to perform them and there were no unexcused deviations. Any failure to meet any permit term for any period of time indicates intermittent compliance. You may also indicate “undetermined compliance,” if you include the reason.

Section C (Deviations From Permit Terms and Conditions)

Summarize all deviations from permit terms that occurred since the last compliance certification. They may have been reported previously in-writing or they may be reported concurrently with this certification. Also include any deviations but have not yet been reported in writing.

Copy this page as many times as necessary to include all deviations that occurred during the reporting period for this compliance certification.

Deviations occur when any permit term is not met, including emission limitations, standards, monitoring, recordkeeping, reporting and other requirements. For a more detailed explanation of the term “deviation.” See the instructions for Form **SIXMON**. A deviation is not necessarily a violation. Violations are determined by EPA (or its delegate Agency).

You may cross-reference deviations previously reported (e.g., in 6-month monitoring reports).

You must indicate whether each deviation is a “possible exception to compliance.” This is a deviation that occurs when compliance is required. A deviation that is not a “possible exception to compliance” is one that occurs when compliance is not required or it is excused by another permit term. If you indicate that a deviation is not a possible exception to compliance, briefly explain and cross-reference the permit term that allows or excuses it. In addition, deviations for which the permit provides an affirmative defense (e.g., emergencies) must be identified as “possible exception to compliance” because only the permitting authority may determine if the affirmative defense applies.

If the cross-reference a deviation report that does not contain all the information requested here, you must supplement it accordingly.

You may list multiple emission units if they all had the same deviation during the same time periods. In addition, for deviations that impose requirements to the permitted facility as a whole or to all units at your facility, you may enter facility-wide in the emissions unit column.

You may indicate continuous periods of deviation that span multiple days in a single entry. Use the 24-hour clock (equivalent to military time) for reporting these times (e.g., the day starts and ends at midnight, 12 a.m., or 00:00 in military time).

Specify the date when the written deviation report was submitted to the permitting authority. Leave the date field blank if you did not submit a written deviation report during the reporting period covered by the six-month monitoring report (whether required to do so or not). It is a deviation to fail to submit a required deviation report.



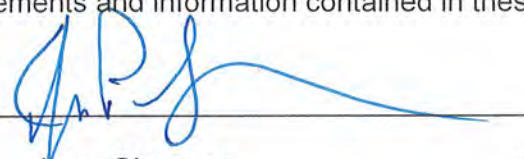
OMB No. 2060-0336, Expires 11/30/2025

Federal Operating Permit Program (40 CFR Part 71)
CERTIFICATION OF TRUTH, ACCURACY, AND COMPLETENESS (CTAC)

This form must be completed, signed by the "Responsible Official" designated for the facility or emission unit, and sent with each submission of documents (i.e., application forms, updates to applications, reports, or any information required by a part 71 permit).

A. Responsible OfficialName: (Last) Jerry (First) Simpson (MI) _____Title Plant ManagerStreet or P.O. Box Dickerson Power LLC, 21230 Martinsburg RoadCity Dickerson State MD ZIP 20842 - _____Telephone (301) 691 - 6528 Ext. _____ Facsimile (301) 601-6556**B. Certification of Truth, Accuracy and Completeness** (to be signed by the responsible official)

I certify under penalty of law, based on information and belief formed after reasonable inquiry, the statements and information contained in these documents are true, accurate and complete.

Name (signed) Name (typed) Jerry Simpson Date: 3 / 31 / 2025

ATTACHMENT G

EMISSION CALCULATIONS

EMISSION SUMMARY AND CALCULATION INPUT DATA

Station: Dickerson
Reporting Year: 2024

Station Summary Criteria Pollutants

Pollutant	CAS	Emissions Tons/Year
CO	630-08-0	80.93
Lead	7439-92-1	0.00
NOx	10102-44-0	84.24
FPM		1.81
FPM10		1.81
FPM2.5		1.81
CPM		4.41
TPM		6.22
TPM10		6.22
TPM2.5		6.22
SOX	7446-09-5	1.03
VOC		2.20

Station Summary GHG Emissions

Pollutant	CAS	Emissions Tons/Year
CO2	124-38-9	110,456.83
N2O	10024-97-2	0.22
CH4	74-82-8	2.09

Station:
Reporting Year:

Dickerson
2024

Station Summary HAPS

Pollutant	CAS	Emissions Tons/Year	Facility Threshold Tons/Year	Reportable? (Yes/No)
1,3 Butadiene	106-99-0	5.82E-04	0.001	No
1,1,1-Trichloroethane	71-55-6	0.00E+00	10	No
2,3,7,8 -Tetrachlorodibenzo p dioxin	1746-01-6	0.00E+00	0.00000001	No
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	0.00E+00	0.00000001	No
2,4-Dinitrotoluene	121-14-2	0.00E+00	0.1	No
2-Chloroacetophenone	532-27-4	0.00E+00	0.01	No
Acetaldehyde	75-07-0	3.68E-02	0.1	No
Acetophenone	98-86-2	0.00E+00	1	No
Acrolein	107-02-8	5.89E-03	0.01	No
Ammonia	7664-41-7	0.00E+00	1.00	No
Antimony	7440-36-0	0.00E+00	0.01	No
Arsenic	7440-38-2	1.28E-04	0.0001	Yes
Benzene	1746-01-6	1.17E-02	0.1	No
Benzyl chloride	100-44-7	0.00E+00	0.1	No
Beryllium	7440-41-7	3.61E-06	0.0001	No
Biphenyl	92-52-4	0.00E+00	0.1	No
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.00E+00	0.1	No
Bromoform	75-25-2	0.00E+00	0.1	No
Cadmium	7440-43-9	5.59E-05	0.0001	No
Carbon disulfide	75-15-0	0.00E+00	1	No
Chlorobenzene	108-90-7	0.00E+00	1	No
Chloroform	67-66-3	0.00E+00	0.01	No
Chromium	7440-43-7	1.28E-04	0.01	No
Chromium (VI)	18540-29-9	0.00E+00	0.00001	No
Cobalt	7440-48-4	0.00E+00	0.001	No
Cumene	98-82-8	0.00E+00	10	No
Cyanide	57-12-5	0.00E+00	0.1	No
Dichlorobenzene	25321-22-6	0.00E+00	0.1	No
Dimethyl sulfate	77-78-1	0.00E+00	0.01	No
Ethyl benzene	100-41-4	2.94E-02	10	No
Ethyl chloride	75-00-3	0.00E+00	0.01	No
Ethylene dibromide	106-93-4	0.00E+00	0.001	No
Ethylene dichloride	107-06-2	0.00E+00	0.01	No
Ethylene glycol	107-21-1	0.00E+00	1	No
Formaldehyde	50-00-0	6.57E-01	0.01	Yes
Hexane	110-54-3	0.00E+00	10	No
Hydrochloric acid	7647-01-0	0.00E+00	0.1	No
Hydrofluoric acid	7664-39-3	0.00E+00	0.1	No
Isophorone	78-59-1	0.00E+00	1	No
Manganese	7439-96-5	9.20E-03	0.01	No
Mercury	7439-97-6	1.40E-05	0.001	No
Methyl bromide	74-83-9	0.00E+00	0.01	No
Methyl chloride	74-87-3	0.00E+00	0.1	No

Station Summary HAPS (continued)

Methyl ethyl ketone	78-93-3	0.00E+00	10	No
Methyl hydrazine	60-34-4	0.00E+00	0.001	No
Methyl methacrylate	80-62-6	0.00E+00	10	No
Methyl tert butyl ether	1634-04-4	0.00E+00	10	No
Methylene chloride	75-09-2	0.00E+00	1	No
Naphthalene	91-20-3	1.60E-03	1	No
Nickel	7440-02-0	5.36E-05	0.001	No
Phenol	108-95-2	0.00E+00	1	No
Propionaldehyde	123-38-6	0.00E+00	0.1	No
Propylene oxide	76-56-9	2.67E-02	0.1	No
Selenium	7782-49-2	2.91E-04	0.01	No
Styrene	100-42-5	0.00E+00	1	No
Tetrachloroethylene	127-18-4	0.00E+00	10	No
Toluene	108-88-3	1.20E-01	10	No
Vinyl acetate	108-05-4	0.00E+00	1	No
Xylenes	1330-20-7	5.89E-02	10	No
Acenaphthene	83-32-9	0.00E+00	0.01	No
Acenaphthylene	203-96-8	0.00E+00	0.1	No
Anthracene	120-12-7	0.00E+00	0.01	No
Benz(a)anthracene	56-55-3	0.00E+00	0.001	No
Benzo(a)pyrene	50-32-8	0.00E+00	0.0001	No
Benzo(b)fluoranthene	205-99-2	0.00E+00	0.001	No
Benzo(ghi)perylene	191-24-2	0.00E+00	0.01	No
Benzo(k)fluoranthene	207-08-9	0.00E+00	0.01	No
Chrysene	218-01-9	0.00E+00	0.01	No
Dibenzo(a,h)anthracene	53-70-3	0.00E+00	0.0001	No
Fluoranthene	206-44-0	0.00E+00	0.1	No
Fluorene	86-73-7	0.00E+00	0.01	No
Indeno(1,2,3-cd)pyrene	193-39-5	0.00E+00	0.001	No
Phenanthrene	85-01-8	0.00E+00	0.01	No
Pyrene	129-00-0	0.00E+00	0.01	No
TOTAL		9.58E-01		

EMISSION FACTORS

<u>Unit Type</u>	<u>Unit Name</u>	<u>Pollutant</u>	<u>EF</u>	<u>Unit</u>	<u>Reference</u>
Turbines - Oil Fired	HCT-1	NH3	NA		No factor available
Turbines - Oil Fired	HCT-1	FPM	0.0043	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	HCT-1	FPM-10	0.0043	lb/MMBtu	None available,set equal to FPM
Turbines - Oil Fired	HCT-1	FPM-2.5	0.0043	lb/MMBtu	None available,set equal to FPM
Turbines - Oil Fired	HCT-1	CPM	0.0072	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	HCT-1	SO ₂	CEM		
Turbines - Oil Fired	HCT-1	NOx	CEM		
Turbines - Oil Fired	HCT-1	VOC	0.00041	lb/MMBtu	AP42 Table 3.1-2a
Turbines - Oil Fired	HCT-1	CO	0.0033	lb/MMBtu	AP42 Table 3.1-1
Turbine - Gas Fired	HCT-1	NH3	NA		No factor available
Turbine - Gas Fired	HCT-1	FPM	0.0019	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-1	FPM-10	0.0019	lb/MMBtu	None available,set equal to FPM
Turbine - Gas Fired	HCT-1	FPM-2.5	0.0019	lb/MMBtu	None available,set equal to FPM
Turbine - Gas Fired	HCT-1	CPM	0.0047	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-1	SO ₂	CEM		
Turbine - Gas Fired	HCT-1	NOx	CEM		
Turbine - Gas Fired	HCT-1	VOC	0.0021	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-1	CO	0.082	lb/MMBtu	AP-42, Table 3.1-1
Turbines - Oil Fired	HCT-2	NH3	NA		No factor available
Turbines - Oil Fired	HCT-2	FPM	0.0043	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	HCT-2	FPM-10	0.0043	lb/MMBtu	None available,set equal to FPM
Turbines - Oil Fired	HCT-2	FPM-2.5	0.0043	lb/MMBtu	None available,set equal to FPM
Turbines - Oil Fired	HCT-2	CPM	0.0072	lb/MMBtu	AP-42, Table 3.1-2a
Turbines - Oil Fired	HCT-2	SO ₂	CEM		
Turbines - Oil Fired	HCT-2	NOx	CEM		
Turbines - Oil Fired	HCT-2	VOC	0.00041	lb/MMBtu	AP42 Table 3.1-2a
Turbines - Oil Fired	HCT-2	CO	0.0033	lb/MMBtu	AP42 Table 3.1-1
Turbine - Gas Fired	HCT-2	NH3	NA		No factor available
Turbine - Gas Fired	HCT-2	FPM	0.0019	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-2	FPM-10	0.0019	lb/MMBtu	None available,set equal to FPM
Turbine - Gas Fired	HCT-2	FPM-2.5	0.0019	lb/MMBtu	None available,set equal to FPM
Turbine - Gas Fired	HCT-2	CPM	0.0047	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-2	SO ₂	CEM		
Turbine - Gas Fired	HCT-2	NOx	CEM		
Turbine - Gas Fired	HCT-2	VOC	0.0021	lb/MMBtu	AP-42, Table 3.1-2a
Turbine - Gas Fired	HCT-2	CO	0.082	lb/MMBtu	AP-42, Table 3.1-1
Small Engine - Gasoline	Gasoline Pump	NH3	NA		No factor available
Small Engine - Gasoline	Gasoline Pump	FPM	12.6	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	FPM-10	12.6	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	FPM-2.5	12.6	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	CPM	NA		
Small Engine - Gasoline	Gasoline Pump	SO ₂	10.6	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	NOx	205	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	VOC	382	lb/1000gal	FIRE Version 6.25
Small Engine - Gasoline	Gasoline Pump	CO	7900	lb/1000gal	FIRE Version 6.25

OPERATIONAL INPUT DATA FOR EMISSION CALCULATIONS
COMBUSTION TURBINES

GADS	CEM	GADS	GADS
HCT1 Hours	HCT1 Days	HCT1 #2 Oil gallons	HCT1 Gas Mcf
27.72	6	42,420	26,520
22.16	5	0	27,160
33.20	7	0	40,220
61.90	14	0	76,670
58.30	12	65,520	62,030
62.93	10	0	81,130
232.53	28	3,780	331,440
109.12	15	0	151,800
41.47	7	0	49,690
24.07	5	0	28,260
0.00	0	0	0
4.10	5	15,960	3,840
677.50	114	127,680	878,760
HCT2 Hours	HCT2 Days	HCT2 #2 Oil gallons	HCT2 Gas Mcf
43.64	7	32,760	54,020
23.60	5	0	28,490
39.78	8	0	46,410
60.57	10	0	72,730
20.84	5	1,680	24,180
71.53	10	0	87,870
225.41	26	3,360	316,840
101.75	12	0	141,530
34.73	6	0	40,720
29.72	6	0	38,930
8.75	3	0	10,600
11.58	3	4,200	13,870
671.90	101	42,000	876,190

OPERATIONAL INPUT DATA FOR EMISSION CALCULATIONS ENGINES

Industrial Engine Data	Fuel Use	Reference
Diesel Used (gallons)	5,043	Dickerson Fuel Data Sheet
Kerosene Used (gallons)	0	Dickerson Fuel Data Sheet

Gasoline Pump		Reference
Gasoline Used (gallons)	1,378	Dickerson Fuel Data Sheet

Fuel Data:

		Value	Reference
#2 Fuel Oil Heating Value	Btu/gal	137,285	PowerGADS
#2 Fuel Oil Sulfur%	wt%	0.017	PowerGADS
#2 Fuel Oil Density	lb/gal	7.00	AP-42, Appendix A
Used Oil Heating Value	Btu/gal		Assume same as #2 Fuel Oil
Used Oil Sulfur%	wt%		Assume same as #2 Fuel Oil
Used Oil Density	lb/gal		Assume same as #2 Fuel Oil
Natural Gas Heating Value	BTU/scf	1,048.6	PowerGADS
Kerosene Heating Value	Btu/gal		AP-42, Appendix A
Kerosene Sulfur%	wt%		AP-42, Appendix A
Kerosene Density	lb/gal		Assume same as #2 Fuel Oil
Gasoline Heating Value	Btu/gal	125,000	AP-42, Appendix A

ATTACHMENT H

ACID RAIN PERMIT APPLICATION



Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ new ☐ revised ☐ for ARP permit renewal

STEP 1

Identify the facility name,
State, and plant (ORIS) code.

Facility (Source) Name	State	Plant Code
------------------------	-------	------------

STEP 2

Enter the unit ID# for every
affected unit at the affected
source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

Facility (Source) Name (from STEP 1)

STEP 3**Permit Requirements****Read the standard requirements.**

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - ⓐ Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
 - ⓑ Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - ⓐ Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
 - ⓑ Have an Acid Rain Permit.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
 - ⓐ Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
 - ⓑ Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - ⓐ Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - ⓑ Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.**Excess Emissions Requirements**

- (1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
 - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
 - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
 - (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 - (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Facility (Source) Name (from STEP 1)	Dickerson
--------------------------------------	-----------

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

Read the
certification
statement, sign,
and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Jerry Simpson	
Signature 	Date 10/15/2025

ATTACHMENT I

RED-LINE Version of Permit No. 24-031-2716

24-031-2716



Maryland
Department of
the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor
Horacio Tablada, Secretary
Suzanne E. Dorsey, Deputy Secretary

~~Mr. David S. Cramer, Senior Manager~~
~~Environmental~~
~~GenOn Holdings, Inc.~~
~~Mr. Jerry Simpson~~
~~Dickerson Power LLC~~
~~2120021230~~ Martinsburg
Road
Dickerson, MD 20842

SEP 15 2022

Dear Mr. ~~Cramer~~Simpson:

Re: Initial Part 70/ Title V Operating Permit 24-031-2716 Dickerson CTS

Enclosed, please find the Part 70/Title V Operating Permit and Fact Sheet for the ~~GenOn~~Dickerson Power Dickerson facility located ~~in~~ Montgomery County, MD. The Permit will expire on October 31, 2026.

The Code of Maryland Regulations (COMAR) 26.11.03.11 states the following:

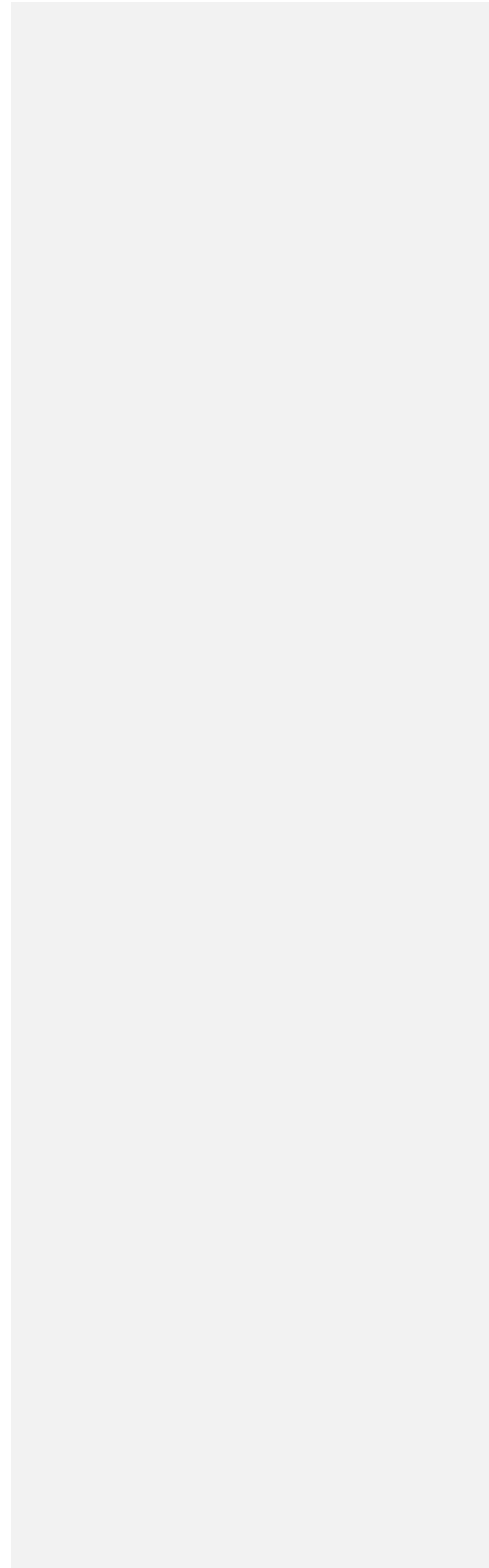
If the Department denies a Part 70 permit or issues it with terms and conditions that are objectionable to the applicant, the applicant may request that a contested case hearing be held regarding the permit. This request shall be made to the Department in writing not later than 15 days after the applicant receives notice that the permit has been denied or of the objectionable terms and conditions. The request shall include the basis for the request and refer to any objectionable terms and conditions.

Please note the following revised condition in the Permit under Section II, General Conditions, Number 5, Permit Renewal:

The Permittee shall submit to the Department a completed application for renewal of this Part 70 permit 12 months before the expiration of the permit. Upon submitting a complete application, the Permittee may continue to operate this facility pending final action by the Department on the renewal.

1800 Washington Boulevard | Baltimore , MD 21230 | 1-800-633-6101 | 410-537-3000 | TTY Users 1-800-735-2258

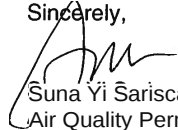
www.mde.maryland.gov



~~Mr. Cramer~~
Page2

If you have any questions, please feel free to contact Ms. Marcie Gurley, Chief,
Technical Support Division, at Marcie.gurley@maryland.gov, or (410) 537-3230.

Sincerely,



Suna Yi Sariscak, Manager
Air Quality Permits Program
Air & Radiation Administration

SYS/jm

Enclosures

cc: EPA Region III (w/encl)

KEEP PERMIT AT SITE

CONTROL NO. B- **Q7 214**

Larry Hogan
Governor

State of



⁴⁴
Maryland

Horacio Tablada
Secretary

DEPARTMENT OF THE ENVIRONMENT

Air and Radiation Administration
1800 Washington Boulevard, Suite 720
Baltimore, MD 21230

Construction Permit

Part 70

~~X~~-Operating Permit

PERMIT NO. 24-031-2716

DATE ISSUED

SEP 15 2022

PERMIT FEE To be paid in accordance
with COMAR 26.11.02.19B

EXPIRATION
DATE

October 31, 2026

LEGAL OWNER & ADDRESS

Dickerson Power, LLC
212~~390~~ Martinsburg
Rd.

Dickerson, MD 20842

Attn: Mr. ~~Dave~~
Gramer Jerry Simpson

SITE

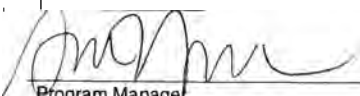
Dickerson Power, LLC
Dickerson Generating Station
212~~390~~ Martinsburg Rd.

Dickerson, MD 20842

Alt# 169377

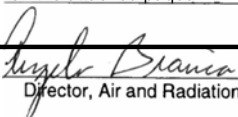
SOURCE DESCRIPTION

202~~59~~ 031-2716 Initial Renewal Part 70 PTO for Electric Generating Station.


Program Manager

This source is subject to the conditions described on the attached pages.

Page 1 of 68


Director, Air and Radiation Administration

DICKERSON POWER, LLC
DICKERSON GENERATING STATION
2420021230 MARTINSBURG ROAD
DICKERSON, MD 20842
PART 70 OPERATING PERMIT NO. 24-031-2716

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DICKERSON POWER, LLC
DICKERSON GENERATING STATION
~~2420021230~~ MARTINSBURG ROAD
DICKERSON, MD 20842
PART 70 OPERATING PERMIT NO. 24-031-2716

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Attachment A

Acid Rain Permit

Attachment B

CO2 Budget Permit

**DICKERSON POWER, LLC
DICKERSON GENERATING STATION
~~24200~~21230 MARTINSBURG ROAD
DICKERSON, MD 20842
PART 70 OPERATING PERMIT NO. 24-031-2716**

SECTION I SOURCE IDENTIFICATION

1. DESCRIPTION OF FACILITY

The Dickerson Generating Station is engaged in the generation of electric energy for sale. The primary SIC code for this facility is 4911. The major components of the facility consist of ~~an oil-fired combustion turbine primarily used for black start and peaking service, and~~ two (2) peaking service combustion turbines primarily firing natural gas located on site at Station H.

~~The single black start combustion turbine (CT) manufactured by Pratt & Whitney is used both for black start capability and peaking service. The combustion turbine is No. 2 oil fired and rated at 18 megawatts.~~

The two (2) combustion turbines manufactured by General Electric are used for peaking capacity. Each is rated at 167 megawatts and fires primarily natural gas, ~~and~~ No. 2 fuel oil is used as a secondary fuel. Each combustion turbine exhausts ~~through a 213~~130-foot stack.

Dickerson Generating was formerly part of a larger facility owned by GenOn Mid Atlantic, LLC (GenOn). submitted to the Department a modification to the renewal application dated May 22, 2020, for the retirement of the coal units [D-1 thru D-3, three (3) coal fired boilers (3-0001 thru 3-0003)] in August 2020. GenOn previously retired three coal-fired units at this site. These units were not included in the renewal permit issued on September 15, 2022. On December 22, 2023, GenOn notified the Department of the permanent retirement of the Pratt and Whitney FT4-A combustion turbine, EU DCT-1, used for black start and peaking service emission. This Title V renewal application does not include DCT-1. Because of the removal of the coal unit, the facility will be issued an initial Title V operating permit with a new name for the combustion turbines.

2. FACILITY INVENTORY LIST

Emissions Unit Number	MDE-ARA Registration Number	Emissions Unit Name and Description	Date of Installation
DCT-1	4-0907	Unit DCT-1 is a Pratt and Whitney FT4-A combustion turbine and utilized for black start and peaking service. The combustion turbine is rated at 18 megawatts, fires No.2 fuel oil.	March 1967

HCT-1 (CAMD ID GT2	9-0362	Unit HCT-1 is a General Electric Frame 7F combustion turbine that fires primarily natural gas and No. 2 fuel oil as a secondary fuel. The combustion turbine has a rated capacity of 167 megawatts. The combustion turbine is equipped with inlet foggers to maintain output at high	June 1992
--------------------------	--------	--	-----------

**DICKERSON POWER, LLC
DICKERSON GENERATING STATION
~~2420021230~~ MARTINSBURG ROAD
DICKERSON, MD 20842
PART 70 OPERATING PERMIT NO. 24-031-2716**

Emissions Unit Number	MDE-ARA Registration Number	Emissions Unit Name and Description	Date of Installation
		ambient temperatures and with water injection to control NOx emissions. The exhaust is directed to a single 130213 -foot-high stack.	
HCT-2 (CAMD ID GT3)	9-0363	Unit HCT-2 is a General Electric Frame 7F combustion turbine that fires primarily natural gas and No. 2 fuel oil as a secondary fuel. The combustion turbine has a rated capacity of 167 megawatts. The combustion turbine is equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NOx emissions. The exhaust is directed to a single 130213 -foot-high stack.	June 1993

**DICKERSON POWER, LLC
DICKERSON GENERATING STATION
212~~390~~ MARTINSBURG ROAD
DICKERSON, MD 20842
PART 70 OPERATING PERMIT NO. 24-031-2716**

SECTION II GENERAL CONDITIONS

1. DEFINITIONS

[COMAR 26.11.01.01] and [COMAR 26.11.02.01]

The words or terms in this Part 70 permit shall have the meanings established under COMAR 26.11.01 and .02 unless otherwise stated in this permit.

2. ACRONYMS

ARA	Air and Radiation Administration
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEM	Continuous Emissions Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMAR	Code of Maryland Regulations
EPA	United States Environmental Protection Agency
FR	Federal Register
gr	grains
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
MOE	Maryland Department of the Environment
MVAC	Motor Vehicle Air Conditioner
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NOx	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
OTA	Ozone Transport Region
PM	Particulate Matter
PM10	Particulate Matter with Nominal Aerodynamic Diameter of 10 micrometers or less
ppm	parts per million
ppb	parts per billion
PSD	Prevention of Significant Deterioration
PTC	Permit to construct
PTO	Permit to operate (State)
SIC	Standard Industrial Classification

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SO ₂	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	tons per year
VE	Visible Emissions
VOC	Volatile Organic Compounds

3. EFFECTIVE DATE

The effective date of the conditions in this Part 70 permit is the date of permit issuance, unless otherwise stated in the permit.

4. PERMIT EXPIRATION

[COMAR 26.11.03.139(2)]

Upon expiration of this permit, the terms of the permit will automatically continue to remain in effect until a new Part 70 permit is issued for this facility provided that the Permittee has submitted a timely and complete application and has paid applicable fees under COMAR 26.11.02.16.

Otherwise, upon expiration of this permit the right of the Permittee to operate this facility is terminated.

5. PERMIT RENEWAL

[COMAR 26.11.03.029(3)] and [COMAR 26.11.03.02E]

The Permittee shall submit to the Department a completed application for renewal of this Part 70 permit at least 12 months before the expiration of the permit. Upon submitting a completed application, the Permittee may continue to operate this facility pending final action by the Department on the renewal.

The Permittee, upon becoming aware that any relevant facts were omitted, or incorrect information was submitted in the permit application, shall submit such supplementary facts or corrected information no later than 10 days after becoming aware that this occurred. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after the date a completed application was submitted, but prior to the release of a draft

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permit. This information shall be submitted to the Department no later than 20 days after a new requirement has been adopted.

6. CONFIDENTIAL INFORMATION

[COMAR 26.11.02.02G]

In accordance with the provisions of the State Government Article, Sec. 10-611 et seq., Annotated Code of Maryland, all information submitted in an application shall be considered part of the public record and available for inspection and copying, unless the Permittee claims that the information is confidential when it is submitted to the Department. At the time of the request for inspection or copying, the Department will make a determination with regard to the confidentiality of the information. The Permittee, when requesting confidentiality, shall identify the information in a manner specified by the Department and, when requested by the Department, promptly provide specific reasons supporting the claim of confidentiality. Information submitted to the Department without a request that the information be deemed confidential may be made available to the public. Subject to approval of the Department, the Permittee may provide a summary of confidential information that is suitable for public review. The content of this Part 70 permit is not subject to confidential treatment.

7. PERMIT ACTIONS

[COMAR 26.11.03.06E(3)] and [COMAR 26.11.03.20(A)]

This Part 70 permit may be revoked or reopened and revised for cause. The filing of an application by the Permittee for a permit revision or renewal; or a notification of termination, planned changes or anticipated noncompliance by the facility, does not stay a term or condition of this permit.

The Department shall reopen and revise, or revoke the Permittee's Part 70 permit under the following circumstances:

- a. Additional requirements of the Clean Air Act become applicable to this facility and the remaining permit term is 3 years or more;

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- b. The Department or the EPA determines that this Part 70 permit contains a material mistake, or is based on false or inaccurate information supplied by or on behalf of the Permittee;
- c. The Department or the EPA determines that this Part 70 permit must be revised or revoked to assure compliance with applicable requirements of the Clean Air Act; or
- d. Additional requirements become applicable to an affected source under the Federal Acid Rain Program.

8. PERMIT AVAILABILITY

[COMAR 26.11.02.13G]

The Permittee shall maintain this Part 70 permit in the vicinity of the facility for which it was issued, unless it is not practical to do so, and make this permit immediately available to officials of the Department upon request.

9. REOPENING THE PART 70 PERMIT FOR CAUSE BY THEEPA

[COMAR 26.11.03.208]

The EPA may terminate, modify, or revoke and reissue a permit for cause as prescribed in 40 CFR §70.7(g)

10. TRANSFER OF PERMIT

[COMAR 26.11.02.02E]

The Permittee shall not transfer this Part 70 permit except as provided in COMAR 26.11.03.15.

11. REVISION OF PART 70 PERMITS-GENERAL CONDITIONS

[COMAR 26.11.03.14] and [COMAR 26.11.03.06A(8)]

- a. The Permittee shall submit an application to the Department to revise this Part 70 permit when required under COMAR 26.11.03.15-.17.

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- b. When applying for a revision to a Part 70 permit, the Permittee shall comply with the requirements of COMAR 26.11.03.02 and .03 except that the application for a revision need include only information listed that is related to the proposed change to the source and revision to the permit. This information shall be sufficient to evaluate the proposed change and to determine whether it will comply with all applicable requirements of the Clean Air Act.
- c. The Permittee may not change any provision of a compliance plan or schedule in a Part 70 permit as an administrative permit amendment or as a minor permit modification unless the change has been approved by the Department in writing.
- d. A permit revision is not required for a change that is provided for in this permit relating to approved economic incentives, marketable permits, emissions trading, and other similar programs.

12. SIGNIFICANT PART 70 OPERATING PERMIT MODIFICATIONS

[COMAR 26.11.03.17)

The Permittee may apply to the Department to make a significant modification to its Part 70 Permit as provided in COMAR 26.11.03.17 and in accordance with the following conditions:

- a. A significant modification is a revision to the federally enforceable provisions in the permit that does not qualify as an administrative permit amendment under COMAR 26.11.03.15 or a minor permit modification as defined under COMAR 26.11.03.16.
- b. This permit does not preclude the Permittee from making changes, consistent with the provisions of COMAR 26.11.03, that would make the permit or particular terms and conditions of the permit irrelevant, such as by shutting down or reducing the level of operation of a source or of an emissions unit within the source. Air pollution control equipment shall not be shut down or its level of operation reduced if doing so would violate any term of this permit.
- c. Significant permit modifications are subject to all requirements of COMAR 26.11.03 as they apply to permit issuance and renewal,

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including the requirements for applications, public participation, and review by affected states and EPA, except:

- (1) An application need include only information pertaining to the proposed change to the source and modification of this permit, including a description of the change and modification, and any new applicable requirements of the Clean Air Act that will apply if the change occurs;
 - (2) Public participation, and review by affected states and EPA, is limited to only the application and those federally enforceable terms and conditions of the Part 70 permit that are affected by the significant permit modification.
- d. As provided in COMAR 26.11.03.158(5), an administrative permit amendment may be used to make a change that would otherwise require a significant permit modification if procedures for enhanced preconstruction review of the change are followed that satisfy the requirements of 40 CFR 70.7(d)(1)(v).
 - e. Before making a change that qualifies as a significant permit modification, the Permittee shall obtain all permits-to-construct and approvals required by COMAR 26.11.02.
 - f. The Permittee shall not make a significant permit modification that results in a violation of any applicable requirement of the Clean Air Act.
 - g. The permit shield in COMAR 26.11.03.23 applies to a final significant permit modification that has been issued by the Department, to the extent applicable under COMAR 26.11.03.23.

13. MINOR PERMIT MODIFICATIONS [COMAR 26.11.03.16]

The Permittee may apply to the Department to make a minor modification to the federally enforceable provisions of this Part 70 permit as provided in COMAR 26.11.03.16 and in accordance with the following conditions:

- a. A minor permit modification is a Part 70 permit revision that:

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- (1) Does not result in a violation of any applicable requirement of the Clean Air Act;
- (2) Does not significantly revise existing federally enforceable monitoring, including test methods, reporting, record keeping, or compliance certification requirements except by:
 - (a) Adding new requirements,
 - (b) Eliminating the requirements if they are rendered meaningless because the emissions to which the requirements apply will no longer occur, or
 - (c) Changing from one approved test method for a pollutant and source category to another;
- (3) Does not require or modify a:
 - (a) Case-by-case determination of a federally enforceable emissions standard,
 - (b) Source specific determination for temporary sources of ambient impacts, or
 - (c) Visibility or increment analysis;
- (4) Does not seek to establish or modify a federally enforceable permit term or condition for which there is no corresponding underlying applicable requirement of the Clean Air Act, but that the Permittee has assumed to avoid an applicable requirement to which the source would otherwise be subject, including:
 - (a) A federally enforceable emissions standard applied to the source pursuant to COMAR 26.11.02.03 to avoid classification as a Title I modification; and
 - (b) An alternative emissions standard applied to an emissions unit pursuant to regulations promulgated under Section 112(i)(5) of the Clean Air Act
- (5) Is not a Title I modification; and

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- (6) Is not required under COMAR 26.11.03.17 to be processed as a significant modification to this Part 70 permit.

b. Application for a Minor Permit Modification

The Permittee shall submit to the Department an application for a minor permit modification that satisfies the requirements of COMAR 26.11.03.03 which includes the following:

- (1) A description of the proposed change, the emissions resulting from the change, and any new applicable requirements that will apply if the change is made;
- (2) The proposed minor permit modification;
- (3) Certification by a responsible official, in accordance with COMAR 26.11.02.02F, that:
 - (a) The proposed change meets the criteria for a minor permit modification, and
 - (b) The Permittee has obtained or applied for all required permits-to-construct required by COMAR 26.11.03.16 with respect to the proposed change;
- (4) Completed forms for the Department to use to notify the EPA and affected states, as required by COMAR 26.11.03.07-.12.

c. Permittee's Ability to Make Change

- (1) For changes proposed as minor permit modifications to this permit that will require the applicant to obtain a permit to construct, the permit to construct must be issued prior to the new change.
- (2) During the period of time after the Permittee applies for a minor modification but before the Department acts in accordance with COMAR 26.11.03.16F(2):
 - (a) The Permittee shall comply with applicable requirements of the Clean Air Act related to the change and the permit terms and conditions described in the application for the minor modification.

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- (b) The Permittee is not required to comply with the terms and conditions in the permit it seeks to modify. If the Permittee fails to comply with the terms and conditions in the application during this time, the terms and conditions of both this permit and the application for modification may be enforced against it.
- d. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.16 is not within the scope of this regulation.
- e. Minor permit modification procedures may be used for Part 70 permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, but only to the extent that the minor permit modification procedures are explicitly provided for in regulations approved by the EPA as part of the Maryland SIP or in other applicable requirements of the Clean Air Act.

14. ADMINISTRATIVE PART 70 OPERATING PERMIT AMENDMENTS

[COMAR 26.11.03.15]

The Permittee may apply to the department to make an administrative permit amendment as provided in COMAR 26.11.03.15 and in accordance with the following conditions:

- a. An application for an administrative permit amendment shall:
 - (1) Be in writing;
 - (2) Include a statement certified by a responsible official that the proposed amendment meets the criteria in COMAR 26.11.03.15 for an administrative permit amendment, and
 - (3) Identify those provisions of this part 70 permit for which the amendment is requested, including the basis for the request.
- b. An administrative permit amendment:
 - (1) Is a correction of a typographical error;

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- (2) Identifies a change in the name, address, or phone number of a person identified in this permit, or a similar administrative change involving the Permittee or other matters which are not directly related to the control of air pollution;
 - (3) requires more frequent monitoring or reporting by the Permittee;
 - (4) Allows for a change in ownership or operational control of a source for which the Department determines that no other revision to the permit is necessary and is documented as per COMAR 26.11.03.158(4);
 - (5) Incorporates into this permit the requirements from preconstruction review permits or approvals issued by the Department in accordance with COMAR 26.11.03.158(5), but only if it satisfies 40 CFR 70.7(d)(1)(v);
 - (6) Incorporates any other type of change, as approved by the EPA, which is similar to those in COMAR 26.11.03.158(1)-(4);
 - (7) Notwithstanding COMAR 26.11.03.158(1)-(6), all modifications to acid rain control provisions included in this Part 70 permit are governed by applicable requirements promulgated under Title IV of the Clean Air Act; or
 - (8) Incorporates any change to a term or condition specified as State-only enforceable, if the Permittee has obtained all necessary permits-to-construct and approvals that apply to the change.
- c. The Permittee may make the change addressed in the application for an administrative amendment upon receipt by the Department of the application, if all permits-to-construct or approvals otherwise required by COMAR 26.11.02 prior to making the change have first been obtained from the Department.
- d. The permit shield in COMAR 26.11.03.23 applies to administrative permit amendments made under Section 8(5) of COMAR 26.11.03.15 , but only after the Department takes final action to revise the permit.

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- e. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.15 is not within the scope of this regulation.

15. OFF-PERMIT CHANGES TO THIS SOURCE

[COMAR 26.11.03.19]

The Permittee may make off-permit changes to this facility as provided in COMAR 26.11.03.19 and in accordance with the following conditions:

- a. The Permittee may make a change to this permitted facility that is not addressed or prohibited by the federally enforceable conditions of this Part 70 permit without obtaining a Part 70 permit revision if:
 - (1) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;
 - (2) The change is not subject to any requirements under Title IV of the Clean Air Act;
 - (3) The change is not a Title I modification; and
 - (4) The change does not violate an applicable requirement of the Clean Air Act or a federally enforceable term or condition of the permit.
- b. For a change that qualifies under COMAR 26.11.03.19, the Permittee shall provide contemporaneous written notice to the Department and the EPA, except for a change to an emissions unit or activity that is exempt from the Part 70 permit application, as provided in COMAR 26.11.03.04. This written notice shall describe the change, including the date it was made, any change in emissions, including the pollutants emitted, and any new applicable requirements of the Clean Air Act that apply as a result of the change.
- c. Upon satisfying the requirements of COMAR 26.11.03.19, the Permittee may make the proposed change.
- d. The Permittee shall keep a record describing:

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- (1) Changes made at the facility that result in emissions of a regulated air pollutant subject to an applicable requirement of the Clean Air Act, but not otherwise regulated under this permit; and
- (2) The emissions resulting from those changes.
- e. Changes that qualify under COMAR 26.11.03.19 are not subject to the requirements for Part 70 revisions.
- f. The Permittee shall include each off-permit change under COMAR 26.11.03.19 in the application for renewal of the part 70 permit.
- g. The permit shield in COMAR 26.11.03.23 does not apply to off-permit changes made under COMAR 26.11.03.19.
- h. The Permittee is subject to enforcement action if it is determined that an off-permit change made under COMAR 26.11.03.19 is not within the scope of this regulation.

16. ON-PERMIT CHANGES TO SOURCES

[COMAR 26.11.03.18]

The Permittee may make on-permit changes that are allowed under Section 502(b)(10) of the Clean Air Act as provided in COMAR 26.11.03.18 and in accordance with the following conditions:

- a. The Permittee may make a change to this facility without obtaining a revision to this Part 70 permit if:
 - (1) The change is not a Title I modification;
 - (2) The change does not result in emissions in excess of those expressly allowed under the federally enforceable provisions of the Part 70 permit for the permitted facility or for an emissions unit within the facility, whether expressed as a rate of emissions or in terms of total emissions;
 - (3) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;

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- (4) The change does not violate an applicable requirement of the Clean Air Act;
 - (5) The change does not violate a federally enforceable permit term or condition related to monitoring, including test methods, record keeping, reporting, or compliance certification requirements;
 - (6) The change does not violate a federally enforceable permit term or condition limiting hours of operation, work practices, fuel usage, raw material usage, or production levels if the term or condition has been established to limit emissions allowable under this permit;
 - (7) If applicable, the change does not modify a federally enforceable provision of a compliance plan or schedule in this Part 70 permit unless the Department has approved the change in writing; and
 - (8) This permit does not expressly prohibit the change under COMAR 26.11.03.18.
- b. The Permittee shall notify the Department and the EPA in writing of a proposed on-permit change under COMAR 26.11.03.18 not later than 7 days before the change is made. The written information shall include the following information:
- (1) A description of the proposed change;
 - (2) The date on which the change is proposed to be made;
 - (3) Any change in emissions resulting from the change, including the pollutants emitted;
 - (4) Any new applicable requirement of the Clean Air Act; and
 - (5) Any permit term or condition that would no longer apply.
- c. The responsible official of this facility shall certify in accordance with COMAR 26.11.02.02F that the proposed change meets the criteria for the use of on-permit changes under COMAR 26.11.03.18.
- d. The Permittee shall attach a copy of each notice required by condition b. above to this Part 70 permit.

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- e. On-permit changes that qualify under COMAR 26.11.03.18 are not subject to the requirements for part 70 permit revisions.
- f. Upon satisfying the requirements under COMAR 26.11.03.18, the Permittee may make the proposed change.
- g. The permit shield in COMAR 26.11.03.23 does not apply to on-permit changes under COMAR 26.11.03.18.
- h. The Permittee is subject to enforcement action if it is determined that an on-permit change made under COMAR 26.11.03.18 is not within the scope of the regulation or violates any requirement of the State air pollution control law.

17. FEE PAYMENT

[COMAR 26.11.02.16A(2) & (S)(b)]

- a. The fee for this Part 70 permit is as prescribed in Regulation .19 of **COMAR 26.11.02.**
- b. The fee is due on and shall be paid on or before each 12-month anniversary date of the permit.
- c. Failure to pay the annual permit fee constitutes cause for revocation of the permit by the Department.

18. REQUIREMENTS FOR PERMITS-TO-CONSTRUCT AND APPROVALS

[COMAR 26.11.02.09.]

The Permittee may not construct or modify or cause to be constructed or modified any of the following sources without first obtaining, and having in current effect, the specified permits-to-construct and approvals:

- a. New Source Review source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;

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- b. Prevention of Significant Deterioration source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;
- c. New Source Performance Standard source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;
- d. National Emission Standards for Hazardous Air Pollutants source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;
- e. A stationary source of lead that discharges one ton per year or more of lead or lead compounds measured as elemental lead, permit to construct required, except for generating stations constructed by electric companies;
- f. All stationary sources of air pollution, including installations and air pollution control equipment, except as listed in COMAR 26.11.02.10, permit to construct required;
- g. In the event of a conflict between the applicability of (a.- e.) above and an exemption listed in COMAR 26.11.02.10, the provision that requires a permit applies.
- h. Approval of a PSD or NSR source by the Department does not relieve the Permittee obtaining an approval from also obtaining all permits-to-construct required by (c.- g.) above.

19. CONSOLIDATION OF PROCEDURES FOR PUBLIC PARTICIPATION

[COMAR 26.11.02.11C] and [COMAR 26.11.03.01 K]

The Permittee may request the Department to authorize special procedures for the Permittee to apply simultaneously, to the extent possible, for a permit to construct and a revision to this permit.

These procedures may provide for combined public notices, informational meetings, and public hearings for both permits but shall not adversely affect the rights of a person, including EPA and affected states, to obtain information about the application for a permit, to comment on an application, or to challenge a permit that is issued.

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These procedures shall not alter any existing permit procedures or time frames.

20. PROPERTY RIGHTS

[COMAR 26.11.03.06E(4)]

This Part 70 permit does not convey any property rights of any sort, or any exclusive privileges.

21. SEVERABILITY

[COMAR 26.11.03.05A(S)]

If any portion of this Part 70 permit is challenged, or any term or condition deemed unenforceable, the remainder of the requirements of the permit continues to be valid.

22. INSPECTION AND ENTRY

[COMAR 26.11.03.06G(3)]

The Permittee shall allow employees and authorized representatives of the Department, the EPA, and local environmental health agencies, upon presentation of credentials or other documents as may be required by law, to:

- a. Enter at a reasonable time without delay and without prior notification the Permittee's property where a Part 70 source is located, emissions-related activity is conducted, or records required by this permit are kept;
- b. Have access to and make copies of records required by the permit;
- c. Inspect all emissions units within the facility subject to the permit and all related monitoring systems, air pollution control equipment, and practices or operations regulated or required by the permit; and

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- d. Sample or monitor any substances or parameters at or related to the emissions units at the facility for the purpose of determining compliance with the permit.

23. DUTY TO PROVIDE INFORMATION

[COMAR 26.11.03.06E(5)]

The Permittee shall furnish to the Department, within a reasonable time specified by the Department, information requested in writing by the Department in order to determine whether the Permittee is in compliance with the federally enforceable conditions of this Part 70 permit, or whether cause exists for revising or revoking the permit. Upon request, the Permittee shall also furnish to the Department records required to be kept under the permit.

For information claimed by the Permittee to be confidential and therefore potentially not disclosable to the public, the Department may require the Permittee to provide a copy of the records directly to the EPA along with a claim of confidentiality.

The Permittee shall also furnish to the Department, within a reasonable time specified by the Department, information or records requested in writing by the Department in order to determine if the Permittee is in compliance with the State-only enforceable conditions of this permit.

24. COMPLIANCE REQUIREMENTS

[COMAR 26.11.03.06E(1)] and [COMAR 26.11.03.06A(11)] and [COMAR 26.11.02.05]

The Permittee shall comply with the conditions of this Part 70 permit. Noncompliance with the permit constitutes a violation of the Clean Air Act, and/or the Environment Article Title 2 of the Annotated Code of Maryland and may subject the Permittee to:

- a. Enforcement action,
- b. Permit revocation or revision,
- c. Denial of the renewal of a Part 70 permit, or

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d. Any combination of these actions.

The conditions in this Part 70 permit are enforceable by EPA and citizens under the Clean Air Act except for the State-only enforceable conditions.

Under Environment Article Section 2-609, Annotated Code of Maryland, the Department may seek immediate injunctive relief against a person who violates this permit in such a manner as to cause a threat to human health or the environment.

25. CREDIBLE EVIDENCE

Nothing in this permit shall be interpreted to preclude the use of credible evidence to demonstrate noncompliance with any term of this permit.

26. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE

[COMAR 26.11.03.06E(2)]

The need to halt or reduce activity in order to comply with the conditions of this permit may not be used as a defense in an enforcement action.

27. CIRCUMVENTION

[COMAR 26.11.01.06]

The Permittee may not install or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total weight of emissions, conceals or dilutes emissions which would otherwise constitute a violation of any applicable air pollution control regulation.

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28. PERMIT SHIELD

[COMAR 26.11.03.23]

A permit shield as described in COMAR 26.11.03.23 shall apply only to terms and conditions in this Part 70 permit that have been specifically identified as covered by the permit shield. Neither this permit nor COMAR 26.11.03.23 alters the following:

- a. The emergency order provisions in Section 303 of the Clean Air Act, including the authority of EPA under that section;
- b. The liability of the Permittee for a violation of an applicable requirement of the Clean Air Act before or when this permit is issued or for a violation that continues after issuance;
- c. The requirements of the Acid Rain Program, consistent with Section 408(a) of the Clean Air Act;
- d. The ability of the Department or EPA to obtain information from a source pursuant to Maryland law and Section 114 of the Clean Air Act; or
- e. The authority of the Department to enforce an applicable requirement of the State air pollution control law that is not an applicable requirement of the Clean Air Act.

29. ALTERNATE OPERATING SCENARIOS

[COMAR 26.11.03.06A(9)]

For all alternate operating scenarios approved by the Department and contained within this permit, the Permittee, while changing from one approved scenario to another, shall contemporaneously record in a log maintained at the facility each scenario under which the emissions unit is operating and the date and time the scenario started and ended.

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SECTION III PLANT WIDE CONDITIONS

1. PARTICULATE MATTER FROM CONSTRUCTION AND DEMOLITION

[COMAR 26.11.06.03D]

The Permittee shall not cause or permit any building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.

2. OPEN BURNING

[COMAR 26.11.07]

Except as provided in COMAR 26.11.07.04, the Permittee shall not cause or permit an open fire from June 1 through August 31 of any calendar year. Prior to any open burning, the Permittee shall request and receive approval from the Department.

3. AIR POLLUTION EPISODE

[COMAR 26.11.05.04]

When requested by the Department, the Permittee shall prepare in writing standby emissions reduction plans, consistent with good industrial practice and safe operating procedures, for reducing emissions creating air pollution during periods of Alert, Warning, and Emergency of an air pollution episode.

4. REPORT OF EXCESS EMISSIONS AND DEVIATIONS

[COMAR 26.11.01.07] and [COMAR 26.11.03.06C(7)]

The Permittee shall comply with the following conditions for occurrences of excess emissions and deviations from requirements of this permit, including those in Section VI - State-only Enforceable Conditions:

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- a. Report any deviation from permit requirements that could endanger human health or the environment, by orally notifying the Department immediately upon discovery of the deviation;
- b. Promptly report all occurrences of excess emissions that are expected to last for one hour or longer by orally notifying the Department of the onset and termination of the occurrence;
- c. When requested by the Department the Permittee shall report all deviations from permit conditions, including those attributed to malfunctions as defined in COMAR 26.11.01 .07A, within 5 days of the request by submitting a written description of the deviation to the Department. The written report shall include the cause, dates and times of the onset and termination of the deviation, and an account of all actions planned or taken to reduce, eliminate, and prevent recurrence of the deviation;
- d. The Permittee shall submit to the Department semi-annual monitoring reports that confirm that all required monitoring was performed, and that provide accounts of all deviations from permit requirements that occurred during the reporting periods. Reporting periods shall be January 1 through June 30 and July 1 through December 31, and reports shall be submitted within 30 days of the end of each reporting period. Each account of deviation shall include a description of the deviation, the dates and times of onset and termination, identification of the person who observed or discovered the deviation, causes and corrective actions taken, and actions taken to prevent recurrence. If no deviations from permit conditions occurred during a reporting period, the Permittee shall submit a written report that so states.
- e. When requested by the Department, the Permittee shall submit a written report to the Department within 10 days of receiving the request concerning an occurrence of excess emissions. The report shall contain the information required in COMAR 26.11.01.070(2).

5. ACCIDENTAL RELEASE PROVISIONS [COMAR

26.11.03.03B(23)] and [40 CFR 68]

Should the Permittee become subject to 40 CFR 68 during the term of this permit, the Permittee shall submit risk management plans by the date

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specified in 40 CFR 68.150 and shall certify compliance with the requirements of 40 CFR 68 as part of the annual compliance certification as required by 40 CFR 70.

The Permittee shall initiate a permit revision or reopening according to the procedures of 40 CFR 70.7 to incorporate appropriate permit conditions into the Permittee's Part 70 permit.

6. GENERAL TESTING REQUIREMENTS

[COMAR 26.11.01.04]

The Department may require the Permittee to conduct, or have conducted, testing to determine compliance with this Part 70 permit. The Department, at its option, may witness or conduct these tests. This testing shall be done at a reasonable time, and all information gathered during a testing operation shall be provided to the Department.

7. EMISSIONS TEST METHODS

[COMAR 26.11.01.04]

Compliance with the emissions standards and limitations in this Part 70 permit shall be determined by the test methods designated and described below or other test methods submitted to and approved by the Department.

Reference documents of the test methods approved by the Department include the following:

- a. 40 CFR 60, appendix A
- b. 40 CFR 51, appendix M
- c. The Department's Technical Memorandum 91-01 "Test Methods and Equipment Specifications for Stationary Sources", (January 1991), as amended through Supplement 3, (October 1, 1997)

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8. EMISSIONS CERTIFICATION REPORT

**[COMAR 26.11.01.05-1] and [COMAR 26.11.02.19C] and
[COMAR 26.11.02.19D]**

The Permittee shall certify actual annual emissions of regulated pollutants from the facility on a calendar year basis.

- a. The certification shall be on forms obtained from the Department and submitted to the Department not later than April 1 of the year following the year for which the certification is required;
- b. The individual making the certification shall certify that the information is accurate to the individual's best knowledge. The individual shall be:
 - (1) Familiar with each source for which the certifications forms are submitted, and
 - (2) Responsible for the accuracy of the emissions information;
- c. The Permittee shall maintain records necessary to support the emissions certification including the following information if applicable:
 - (1) The total amount of actual emissions of each regulated pollutant and the total of all regulated pollutants;
 - (2) An explanation of the methods used to quantify the emissions and the operating schedules and production data that were used to determine emissions, including significant assumptions made;
 - (3) Amounts, types and analyses of all fuels used;
 - (4) Emissions data from continuous emissions monitors that are required by this permit, including monitor calibration and malfunction information;
 - (5) Identification, description, and use records of all air pollution control equipment and compliance monitoring equipment including:

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- (a) Significant maintenance performed,
 - (b) Malfunctions and downtime, and
 - (c) Episodes of reduced efficiency of all equipment;
- (6) Limitations on source operation or any work practice standards that significantly affect emissions; and
- (7) Other relevant information as required by the Department.

9. COMPLIANCE CERTIFICATION REPORT

[COMAR 26.11.03.06G(6) and (7)4]

The Permittee shall submit to the Department and EPA Region III a report certifying compliance with each term of this Part 70 permit including each applicable standard, emissions limitation, and work practice for the previous calendar year by April 1 of each year.

- a. The compliance certification shall include:
- (1) The identification of each term or condition of this permit which is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether the compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of each source, currently and over the reporting period; and
 - (5) Any other information required to be reported to the Department that is necessary to determine the compliance status of the Permittee with this permit.
- b. The Permittee shall submit the compliance certification reports to the Department and EPA simultaneously.

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10. CERTIFICATION BY RESPONSIBLE OFFICIAL

[COMAR 26.11.02.02F]

All application forms, reports, and compliance certifications submitted pursuant to this permit shall be certified by a responsible official as to truth, accuracy, and completeness. The Permittee shall expeditiously notify the Department of an appointment of a new responsible official.

The certification shall be in the following form:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

11. SAMPLING AND EMISSIONS TESTING RECORD KEEPING

[COMAR 26.11.03.06C(5)]

The Permittee shall gather and retain the following information when sampling and testing for compliance demonstrations:

- a. The location as specified in this permit, and the date and time that samples and measurements are taken;
- b. All pertinent operating conditions existing at the time that samples and measurements are taken;
- c. The date that each analysis of a sample or emissions test is performed and the name of the person taking the sample or performing the emissions test;
- d. The identity of the Permittee, individual, or other entity that performed the analysis;
- e. The analytical techniques and methods used; and

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- f. The results of each analysis.

12. GENERAL RECORDKEEPING

[COMAR 26.11.03.06C(6)]

The Permittee shall retain records of all monitoring data and information that support the compliance certification for a period of five (5) years from the date that the monitoring, sample measurement, application, report or emissions test was completed or submitted to the Department.

These records and support information shall include:

- a. All calibration and maintenance records;
- b. All original data collected from continuous monitoring instrumentation;
- c. Records which support the annual emissions certification; and
- d. Copies of all reports required by this permit.

13. GENERAL CONFORMITY

[COMAR 26.11.26.09]

The Permittee shall comply with the general conformity requirements of 40 CFR 93, Subpart B and COMAR 26.11.26.09.

14. ASBESTOS PROVISIONS

[40 CFR 61, Subpart M]

The Permittee shall comply with 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility.

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15. OZONE DEPLETING REGULATIONS

[40 CFR 82, Subpart F]

The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for **MVACs** in subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the prohibitions and required practices pursuant to 40 CFR 82.154 and 82.156.
- b. Equipment used during the maintenance, service, repair or disposal of appliances shall comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- c. Persons performing maintenance, service, repairs or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- d. Persons disposing of small appliances, MVACS, and MVAC-like appliances as defined in 40 CFR 82.152, shall comply with record keeping requirements pursuant to 40 CFR 82.155.
- e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

16. ACID RAIN PERMIT (40 CFR 72)

The Permittee shall comply with the provisions and all applicable requirements of the renewal Phase II Acid Rain Permit, for the affected units that are being issued in conjunction with this permit. See Attached Appendix A.

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SECTION IV PLANT SPECIFIC CONDITIONS

This section provides tables that include the emissions standards, emissions limitations, and work practices applicable to each emissions unit located at this facility. The Permittee shall comply with all applicable emissions standards, emissions limitations and work practices included herein.

The tables also include testing, monitoring, record keeping and reporting requirements specific to each emissions unit. In addition to the requirements included here in **Section IV**, the Permittee is also subject to the general testing, monitoring, record keeping, and reporting requirements included in **Section III - Plant Wide Conditions** of this permit.

Unless otherwise provided in the specific requirements for an emissions unit, the Permittee shall maintain at the facility for at least five (5) years, and shall make available to the Department upon request, all records that the Permittee is required under this section to establish. [Reference: COMAR 26.11.03.06C(5)(g)]

Table IV -1	
1.0	Emissions Unit Number(s): D-CT-1: Combustion Turbine DCT-1: One (1) Pratt and Whitney FT4-A combustion turbine rated at 18 megawatts, fires No.2 fuel oil and utilized for black start and peaking service. [4-0907]
1.1	Applicable Standards/Limits: A. Control of Visible Emissions COMAR 26.11.09.05 - Visible Emissions. "A. Fuel Burning Equipment; (2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity. (3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if: (a) The visible emissions are not greater than 40 percent opacity; and

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	(b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period." B. Control of Sulfur Oxides COMAR 26.11.09.07A(2) — Sulfur Content Limitations for Fuel. "A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: In Areas III and IV: (a) All solid fuels, 1.0 percent; (b) Distillate fuel oils, 0.3 percent; (c) Residual fuel oils, 1.0 percent." C. Control of Nitrogen Oxides COMAR 26.11.09.08G — Requirements for Fuel-Burning Equipment with a Ca12acit Factor of 15 Percent or Less, and Combustion Turbines with a Ca12acit Factor Greater than 15 Percent. "(1) A person who owns or operates fuel-burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall: (a) Provide certification of the capacity factor of the equipment to the Department in writing; (b) For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually; (c)(a) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request."
1.2	Testing Requirements: A. Control of Visible Emissions: See Monitoring Requirements. B. Control of Sulfur Oxides: See Monitoring Requirements. C. Control of Nitrogen Oxides: The Permittee, if the turbines operate more than 500 hours, shall perform a combustion analysis and optimize combustion at least once annually. [Reference: COMAR 26.11.09.08G(1)(b)]. If the Permittee operates the engine in excess of 15 percent capacity factor, the Permittee shall demonstrate compliance with the 65-ppm limit by performing an EPA Reference Method Test within 120 days after exceeding the 15 percent

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	capacity factor. The Permittee shall submit a test protocol to the Department for approval at least 30 days prior to the proposed test date. [Reference: COMAR 26.11.03.06C].
1.3	<u>Monitoring Requirements:</u> A. Control of Visible Emissions The Permittee shall verify that there are no visible emissions when operating. An observer shall perform an EPA Reference Method 9 observation of stack emissions for 18 minute period at least once every 168 hours of operation. If the turbine operates less than 100 hours in a calendar year, the visual observation requirement for that calendar year is waived. The Permittee shall perform the following, if emissions are visible to human observer: (a) inspect combustion control system and combustion turbine operations; (b) perform all necessary adjustments and/or repairs to the combustion turbine within 48 hours of operation so that visible emissions are eliminated; and (c) document in writing the results of inspections, adjustments and/or repairs to the combustion turbine. (d) after 48 hours of operation, if the required adjustments and/or repairs had not eliminated the visible emissions, the Permittee shall perform a Method 9 observation once daily when combustion turbine is operating for 18 minutes until corrective action have eliminated visible emissions. [Reference: COMAR 26.11.03.06C] B. Control of Sulfur Oxides: The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of the fuel oil [Reference: COMAR 26.11.03.06C] C. Control of Nitrogen Oxides: For engines that operate more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion. The Permittee shall calculate the capacity factor of the engine within 30 days after the end of each month. [Reference: COMAR 26.11.03.06C].
1.4	<u>Record Keeping Requirements:</u> Note: All records must be maintained for a period of at least 5 years. [Reference: COMAR 26.11.03.06C(5)(g)] A. Control of Visible Emissions

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	The Permittee shall maintain a copy of the visible emissions readings on site for at least five years and make available to the Department upon request. [Reference: COMAR 26.11.03.0SC] B. Control of Sulfur Oxides: The Permittee shall maintain records of fuel supplier's certification on site for at least five years and shall make records available to the Department upon request. [Reference: COMAR 26.11.03.0SC] C. Control of Nitrogen Oxides The Permittee shall maintain the results of the combustion analysis and any stack tests at the site for at least 5 years and make these results available to the Department and the EPA upon request. The Permittee shall maintain records if the calculations of the capacity factors. [Reference: COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.0SC]
1.5	<u>Reporting Requirements:</u> A. Control of Visible Emissions: The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section 111, Plant Wide Conditions, "Report of Excess Emissions and Deviations". [Reference: COMAR 26.11.03.0SC] B. Control of Sulfur Oxides: The Permittee shall report fuel supplier certifications to the Department upon request. [Reference: COMAR 26.11.09.07C] C. Control of Nitrogen Oxides The Permittee shall provide certification of the annual capacity factor of the equipment to the Department with the support documentation in the Annual Emission Certification Report. [Reference: COMAR 26.11.09.08G(1)(a)-COMAR 26.11.03.0SC].

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

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Table IV-2	
2.0	Emissions Unit Number.{§}: HCT-1 & HCT-2: Combustion Turbines HCT-1 & i-ICT-2: Two (2) General Electric Frame 7F combustion turbines each with a nominal rated capacity of 167 megawatts located at Station H. These combustion turbines fire primarily natural gas and No. 2 fuel oil as a secondary fuel. The units are equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NOx emissions. [9-0362 & 9-0363]
2.1	Applicable Standards/Limits: A. <u>Control of Visible Emissions</u> COMAR 26.11.09.05 - Visible Emissions. "A. Fuel Burning Equipment. (2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity. (3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty-minute period." B. <u>Control of Sulfur Oxides Oxides</u> 1. PSD Approval COMAR 26.11.09.07A(2) & CPCN Order No. 68851 Case No. 8063 condition 27 which limits sulfur in fuel content to no more than 0.3% sulfur, by weight. CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits sulfur emissions to <u>34 pounds per hour</u> per combustion turbine when firing natural gas and <u>579 pounds per hour</u> when firing distillate fuel oil. Total annual emissions of SO2 from the two turbines are limited to 1249-tons in any consecutive 12-month period. 2. NSPS Subpart GG 40 CFR _§_ 60.333 which limits sulfur in fuel content to 0.8%.

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Table IV-2

Note: Compliance with the COMAR/CPCN sulfur limit will also achieve compliance with the NSPS sulfur limit.

3. Acid Rain Provisions

The Permittee shall comply with the requirements of the renewal Phase II Acid Rain Permit issued in conjunction with this Part 70 permit. The Acid Rain Permit is attached to the permit in Appendix A.

4. Cross-State Air Pollution Rule

See Table IV-3: CSAPR for requirements

C. Control of Nitrogen Oxides

1. NO_x RACT

COMAR 26.11.09.08G. - Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less, and Combustion Turbines with a Capacity Factor Greater than 15 Percent.

"(1) A person who owns or operates fuel-burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall:

(a) Provide certification of the capacity factor of the equipment to the Department in writing;

(b) For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually;

(c) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request."

(2) A person who owns or operates a combustion turbine with a capacity factor greater than 15 percent shall meet an hourly average NO_x emission rate of not more than 42 ppm when burning gas or 65 ppm when burning oil (dry volume at 15 percent oxygen) or meet applicable Prevention of Significant Deterioration limits, whichever is more restrictive."

2. PSD Limitation

CPCN Order No. 68851 Case No. 8063 condition 15 which limits NO_x emissions to no more than 42 parts per million dry (ppmvd) at 15 percent O₂ when firing natural gas. When firing No. 2 fuel oil, emissions, in ppmvd at 15 percent O₂ will be limited to no more than:

57 for N ≤ 0.015

and

57 + 400N for N > 0.015

where N is the nitrogen content of the fuel in percent by weight.

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Maximum moisturization will be used to control NOx emissions from the combustion turbines for Elements I and II. For this purpose, maximum moisturization is defined as the highest practical combustion zone water injection rate that can be used to control the emissions of nitrogen oxides consistent with manufacturer's guarantees. Maximum moisturization, and the resulting NOx emissions limits, ~~will be were~~ determined from tests performed by GenOn. GenOn ~~will submit~~ submitted what has been determined by these tests to be the definition of maximum moisturization to the Maryland Departments of Natural Resources and Environment for approval. At no time will the water to fuel ratio be less than that needed to achieve the following NOx emissions limits.

CPCN Order No. 68851 Case No. 8063 condition 17 and 18 which limits NOx emissions from each combustion turbine to 321 pounds per hour when firing natural gas and 608 pounds per hour when firing distillate fuel oil. Total annual emissions of NOx from the two turbines are limited to 1311-tons per consecutive 12-month period.

CPCN Order No. 68851 Case No. 8063 condition 26 which limits the annual average nitrogen content of the fuel oil burned in the combustion turbines to not more than 0.05%, by weight.

3. NSPS Subpart GG

40 CFR §60.332 - Standard for nitrogen oxides.

"No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere a from any stationary gas turbine, any gases which contain nitrogen oxides in excess of:

$$\text{STD} = (0.0075 \times (14.4N)) + F$$

Where:

STD = allowable NOx emissions (percent by volume at 15 percent oxygen and on a dry basis)

Y = manufacturer's rated heat rate at manufacturer's rated load (kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour.

F = NOx emission allowance for fuel-bound nitrogen as defined in 40 CFR §60.332(a)(3):

Fuel-Bound Nitrogen (percent by weight)	F (NOx percent by volume)
N < 0.015	0
0.015 < N < 0.1	0.04(N)
0.1 < N < 0.25	0.004 + 0.0067(N - 0.1)
N > 0.25	0.005"

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4. Acid Rain Provisions

These units are not subject to a NO_x limitation under Acid Rain because they are not coal-fired. However, the Permittee is required to comply with the continuous NO_x monitoring requirement of 40 CFR Part 75 and associated record keeping and reporting requirements. **[Reference: Acid Rain Permit, 40 CFR 75 subpart G]**

5. Cross-State Air Pollution Rule

See Table IV-3: CSAPR for requirements

D. Control of Carbon Monoxide

PSD Approval

CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits carbon monoxide emissions to 90 pounds per hour per combustion turbine when firing natural gas and 91 pounds per hour when firing distillate fuel oil. Total annual emissions of carbon monoxide from the two turbines are limited to 263-tons per consecutive 12-month period.

E. Control of VOC

CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits VOC emissions to 2 pounds per hour per combustion turbine when firing natural gas and 4 pounds per hour when firing distillate fuel oil. Total annual emissions of VOC from the two turbines are limited to 9.2 tons per consecutive 12-month period.

F. Control of Particulate Matter

PSD Approval

CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits PM₁₀ and total particulates emissions 21 pounds per hour per combustion turbine when firing natural gas and 27 pounds per hour when firing distillate fuel oil. Total annual emissions of particulates from the two turbines are limited to 60 tons per consecutive 12-month period.

G. Operating Limitation on Fuel Use

The combustion turbines shall generate electricity using natural gas only. This requirement shall not apply during those times when the delivered cost per million Btu of natural gas exceeds the delivered cost per million Btu of No. 2 oil by 15 percent or during those times when the natural gas supply to the unit is curtailed or interrupted under the delivery contract during maintenance and repair. At such times, the unit shall use No. 2 oil only. Natural Gas service curtailments or interruptions shall be verified by a letter

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	each year from the unit's natural gas supplier identifying the dates on which gas service was restricted. [Reference: CPCN Order #68851 Case No. 8063, Condition 13 and see note under Table IV-2.4 paragraph G - Letter further defining gas curtailment]
2.2	<u>Testing Requirements:</u> A. <u>Control of Visible Emissions:</u> See Monitoring Requirements. B. <u>Control of Sulfur Oxides:</u> The Permittee shall comply with the NSPS fuel oil, gas testing and sampling requirements and Acid Rain Monitoring Requirements. [Reference: 40 CFR §60.334, CPCN 8063 Condition 16, & 40 CFR Appendix B] C. <u>Control of Nitrogen Oxides:</u> 1. NOx RACT If the gas turbine operates more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion at least once annually. [Reference: COMAR 26.11.09.08G(1)(b)] . If the Permittee operates the engine in excess of 15 percent capacity factor, the Permittee shall demonstrate compliance with the 42-ppm limit (on gas) by performing an EPA Reference Method Test within 120 days after exceeding the 15 percent capacity factor. The Permittee shall submit a test protocol to the Department for approval at least 30 days prior to the proposed test date. [Reference: COMAR 26.11.03.06C] . 2. PSD Limitation The Permittee shall conduct testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. [Reference: 40 CFR 75 Appendix E] <u>Note:</u> The Permittee is required to perform NOx testing on the two turbines to satisfy the requirements of the Acid Rain Program. The Permittee currently performs testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. The results of this testing will be used to support the demonstration of compliance with NOx standards and limits of the PSD Approval and NSPS Subpart GG. See quality assurance requirements for the continuous monitoring for NOx for 40 CFR Part 75- Acid Rain Program. [Reference: Acid Rain Permit, CSAPR, 40 CFR 75 Appendix E] 3. NSPS Subpart GG

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	The Permittee shall conduct testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. [Reference: 40 CFR 75 Appendix E] D. <u>Control of Carbon Monoxide</u> See Monitoring Requirements. E. <u>Control of VOC</u> See Monitoring Requirements. F. <u>Control of Particulate Matter</u> See Monitoring Requirements. G. <u>Operating Limitation on Fuel Use</u> See Record Keeping Requirements.
2.3	<u>Monitoring Requirements:</u> A. <u>Control of Visible Emissions</u> The Permittee shall verify that there are no visible emissions when burning No.2 fuel oil. An observer shall perform an EPA Reference Method 9 observation of stack emissions for 18-minute period at least once every 168 hours of operation on oil or at a minimum once per calendar year. The Permittee shall perform the following, if emissions are visible to human observer: (a) inspect combustion control system and combustion turbine operations, (b) perform all necessary adjustments and/or repairs to the combustion turbine within 48 hours of operation so that visible emissions are eliminated; and (c) document in writing the results of inspections, adjustments and/or repairs to the combustion turbine. (d) after 48 hours of operation, if the required adjustments and/or repairs had not eliminated the visible emissions, the Permittee shall perform a Method 9 observation once daily when combustion turbine is operating for 18 minutes until corrective action have eliminated visible emissions. The requirement for the observation is waived if no fuel oil is burned in the combustion turbines during a calendar year. [Reference: COMAR 26.11.03.06C] B. <u>Control of Sulfur Oxides:</u> 1. PSD Approval & 2. NSPS Subpart GG: The Permittee shall comply with the fuel flow and heat input monitoring requirements. [Reference: 40 CFR 75 Appendix D:]

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C. Control of Nitrogen Oxides:

1. NOx RACT

For engines that operate more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion. The Permittee shall calculate the capacity factor of the engine within 30 days after the end of each month. **[Reference: COMAR 26.11.03.06C].**

2. PSD Limitation

The Permittee shall monitor the water to fuel ratio for NSPS Subpart GG and operating of PEM under Acid Rain Part 75 requirements. **[Reference: 40 CFR §60.334 & 40 CFR 75 Appendix E]**

3. NSPS Subpart GG

The Permittee shall monitor the water to fuel ratio for NSPS Subpart GG and operating of PEM under Acid Rain Part 75 requirements. **[Reference: 40 CFR §60.334 & 40 CFR 75 Appendix E]**

D. Control of Carbon Monoxide

The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they continue to operate as designed. **[Reference: COMAR 26.11.03.06C]**

E. Control of VOC

The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they continue to operate as designed. **[Reference: COMAR 26.11.03.06C]**

F. Control of Particulate Matter

The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they operate as designed. **[Reference: .C OMAR 26.11.03.06C]**

G. Operating Limitation on Fuel Use

See Record Keeping Requirements.

2.4 Record Keeping Requirements:

Note: All records must be maintained for a period of at least 5 years. **[Reference: COMAR 26.11.03.06C(5)(g)]**

A. Control of Visible Emissions

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The Permittee shall maintain a copy of the visible emissions observations on site for at least five years and make available to the Department upon request. [Reference: COMAR 26.11.03.06C] <u>B. Control of Sulfur Oxides:</u> 1. PSD Approval & 2. NSPS requirement. The Permittee shall maintain file of all measurements of testing and monitoring. [Reference: 40 CFR §60.7(f)] <u>C. Control of Nitrogen Oxides</u> 1. NOx RACT The Permittee shall maintain the results of the combustion analysis and any stack tests at the site for at least 5 years and make these results available to the Department and the EPA upon request. The Permittee shall maintain records of the calculations of the capacity factors. [Reference: COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C] 2. PSD Limitation The Permittee shall maintain records of test results, analyses of nitrogen content of N of fuel, the water to fuel ratio and hours of operation. [Reference: CPCN Order No. 68851 Case No. 8063 Condition 16 & 23] 3. NSPS Subpart GG The Permittee shall maintain records of test results, analyses of nitrogen content of N of fuel, the water to fuel ratio and hours of operation. [Reference: 40 CFR §60.7(f)] <u>D. Control of Carbon Monoxide</u> The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. [Reference: COMAR 26.11.03.06C]. <u>E. Control of VOC</u> The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. [Reference: COMAR 26.11.03.06C]. <u>F. Control of Particulate Matter</u> The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. [Reference: COMAR 26.11.03.06C].

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G. Operating Limitation on Fuel Use

The Permittee shall maintain records to support the basis for burning fuel oil, either those times when the delivered cost per million Btu of natural gas exceeds the delivered cost per million Btu of No. 2 oil by 15 percent or during those times when the natural gas supply to the unit is curtailed or interrupted under the delivery contract during maintenance and repair.

[REFERENCE: CPCN ORDER #68851 CASE NO. 8063 & COMAR 26.11.03.06C]

Note: The Department, in a February 2, 2006, letter to GenOn, concurred with GenOn's proposal to clarify natural gas curtailments as follows:

Gas pipeline is out of service for maintenance or repair. Documentation of these events will be obtained through postings on the gas supplier's web site.

Gas supply is interrupted under the delivery contract. Documentation of these events will be obtained through postings on the gas supplier's web site.

One or more of the CT Units is called for by PJM to start or extend operation during periods of time when the pipeline operator is not open for business, typically between 6:00 PM and 10:00 AM daily. ~~GenOn~~Dickerson Power will document PJM dispatch notices during these occasions and will purchase gas upon opening of the commercial gas trading market- typically, 10:00 AM, provided the price of delivered gas is not 15% or more of the price of delivered oil.

The 15% cost differential between natural gas and #2 fuel oil will be determined on the following basis:

Daily publications from the Platts service will be utilized as representative industry benchmarks of natural gas and #2 oil pricing. ~~GenOn~~Dickerson Power will document delivered gas-to-oil cost differential using these benchmarks.

The delivered cost of #2 oil for ~~GenOn~~Dickerson Power facilities is calculated by taking the Platts *Oilgram* New York Harbor Barge price and adding \$0.0564/gallon in delivery charges. The delivered cost of natural gas for ~~GenOn~~Dickerson Power facilities is calculated by taking the Platts *Gas Daily* Transco Zone ~~5 South~~ Non-New York price and adding \$0.10/MMBtu for delivery and \$0.22/MMBtu in Park and Loan fees. The delivered prices for #2 oil and natural gas are calculated on a daily basis to determine if the 15% cost differential is met for the current day unit dispatch.

CTs allowed to run on oil for test purposes after repairs or maintenance of the fuel oil system and its appurtenances for operability assurance.

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2.5	<u>Reporting Requirements:</u> A. <u>Control of Visible Emissions:</u> The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section 111, Plant Wide Conditions, "Report of Excess Emissions and Deviations". [Reference: COMAR 26.11.03.06C] B. <u>Control of Sulfur Oxides:</u> 1. PSD Approval & 2. NSPS Subpart GG: The Permittee shall submit quarterly reports to the Department and the Public Service Commission. [Reference: 40 CFR §60.334(j)(9) & CPCN Order No. 68851 Case No. 8063 condition 28] C. <u>Control of Nitrogen Oxides</u> 1. NOxRACT The Permittee shall provide certification of the annual capacity factor of the equipment to the Department with the support documentation in the Annual Emission Certification Report. [Reference: COMAR 26.11.09.08G(1)(a) COMAR 26.11.03.06C]. 2. PSD Limitation In addition to NSPS requirements, GenOnDickerson Power shall also report quarterly, to the Maryland Air and Radiation Administration and the Public Service Commission, any one-hour period during which the average water-to-fuel ratio fell below the water-to-fuel ratio used to demonstrate compliance with the NOx emission concentration limits given in condition No. 15. [Reference: CPCN Order 68851 Case 8063 condition 16 & 28] 3. NSPS Subpart GG The Permittee shall report quarterly, to the Department, water-to-fuel ratios, hours of operation (oil and natural gas), fuel N content and total NOx emissions. [Reference: 40 CFR §60.334] D. <u>Control of Carbon Monoxide</u> The Permittee shall submit records of maintenance to the Department upon request. [Reference: COMAR 26.11.03.06C] E. <u>Control of VOC</u> The Permittee shall submit records of maintenance to the Department upon request. [Reference: COMAR 26.11.03.05C]

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F. Control of Particulate Matter

The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]**

G. Operating Limitation on Fuel Use

Natural gas service curtailments or interruptions shall be verified by a letter each year from the unit's natural gas supplier identifying the dates on which gas service was restricted. **[Reference: CPCN Order #68851 Case No. 8063 Condition 13]**

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

Table IV-3: Cross State Air Pollution Rule (CSAPR)

3.0	Emissions Unit Number(s): HCT-1 and HCT-2: Combustion Turbines
	Cont'd HCT-1 and HCT-2: Two (2) General Electric Frame 7F combustion turbines each with a nominal rated capacity of 167 megawatts located at Station H. These combustion turbines fire primarily natural gas and No. 2 fuel oil as a secondary fuel. The units are equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NOx emissions. [9-0362 & 9-0363]
3.1	<u>Applicable Standards/Limits:</u> COMAR 26.11.28.02 - Requirements. A. This chapter incorporates by reference the U.S. EPA CSAPR and the CSAPR Update, including the definitions, criteria, and procedures therein. B. <u>Trading Program Requirements.</u> (1) This chapter incorporates by reference provisions of the CSAPR NOx Annual Trading Program set forth in 40 CFR Part 97, Subpart AAAAA, as published July 1, 2017, and associated reference methods, performance specifications, and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §97.411(b)(2) and (c)(5)(iii), 97.412(b), and 97.421(h) and (j). (2) This chapter incorporates by reference provisions of the CSAPR NOx Ozone Season Group 3 Trading Program set forth in 40 CFR Part 97, Subpart EEEEE, as published July 1, 2017, and associated reference methods, performance specifications and other test methods referenced

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	by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §§97.811(b)(2) and (c)(5)(iii), 97.812(b), and 97.821(h) and (j). <i>(This is superseded by Group 3 Subpart GGGGG published April 30, 2021, effective June 29, 2021).</i> (3) This chapter incorporates by reference provisions of the CSAPR SO₂ Group 1 Trading Program set forth in 40 CFR Part 97, Subpart CCCCC, as published July 1, 2017, and associated reference methods, performance specifications and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §§97.611(b)(2) and (c)(5)(iii), 97.612(b), and 97.621(h) and (j). A.40 CFR Part 97 Subpart AAAAA-CSAPR NO_x Annual Trading Program §97.406 - <u>Standard requirements.</u> "(a) <u>Designated representative requirements.</u> The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.413 through 97.418. (b) <u>Emissions monitoring, recordkeeping and reporting requirements.</u> (1) The owners and operators, and the designated representative, of each CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.430 through 97.435. (2) The emissions data determined in accordance with §§97.430 through 97.435 shall be used to calculate allocations of CSAPR NO_x Annual allowances under §§97.411(a)(2) and (b) and 97.412 and to determine compliance with the CSAPR NO_x Annual emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero. (c) <u>NO_x emissions requirement (1) CSAPR NO_x Annual emissions limitation.</u> (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall hold, in the source's compliance account, CSAPR NO_x Annual allowances available for deduction for such control period under §97.424(a) in an amount not

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	less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Annual units at the source. (ii) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Annual units at a CSAPR NO_x Annual source are in excess of the CSAPR NO_x Annual emissions limitation set forth in paragraph (c)(1)(i) of this section, then: (A) The owners and operators of the source and each CSAPR NO_x Annual unit at the source shall hold the CSAPR NO_x Annual allowances required for deduction under §97.424(d); and (B) The owners and operators of the source and each CSAPR NO_x Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (2) <u>CSAPR NO_x Annual assurance provisions.</u> (i) If total NO_x emissions during a control period in a given year from all CSAPR NO_x Annual units at CSAPR NO_x Annual sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x Annual allowances available for deduction for such control period under §97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with §97.425(b), of multiplying- (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_x emissions from all CSAPR NO_x Annual units at CSAPR NO_x Annual sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level.
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	(ii) The owners and operators shall hold the CSAPR NOx Annual allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period. (iii) Total NOx emissions from all CSAPR NOx Annual units at CSAPR NOx Annual sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total NOx emissions exceed the sum, for such control period, of the State NOx Annual trading budget under §97.410(a) and the State's variability limit under §97.410(b). (iv) It shall not be a violation of this subpart or of the Clean Air Act if total NOx emissions from all CSAPR NOx Annual units at CSAPR NOx Annual sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total NOx emissions from the CSAPR NOx Annual units at CSAPR NOx Annual sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level. (v) To the extent the owners and operators fail to hold CSAPR NOx Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section, (A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and (8) Each CSAPR NOx Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (3) <u>Compliance periods.</u> (i) A CSAPR NOx Annual unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under §97.430(b) and for each control period thereafter. (ii) A CSAPR NOx Annual unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of January 1, 2017, or the deadline for meeting the unit's monitor certification requirements under §97.430(b) and for each control period thereafter. (4) <u>Vintage of CSAPR NOx Annual allowances held for compliance.</u> (i) A CSAPR NOx Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given
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year must be a CSAPR NO_x Annual allowance that was allocated or auctioned for such control period or a control period in a prior year.

(ii) A CSAPR NO_x Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) of this section for a control period in a given year must be a CSAPR NO_x Annual allowance that was allocated or auctioned for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR NO_x Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart.

(6) Limited authorization. A CSAPR NO_x Annual allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:

(i) Such authorization shall only be used in accordance with the CSAPR NO_x Annual Trading Program; and

(ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A CSAPR NO_x Annual allowance does not constitute a property right.

(d) Title V permit requirements. (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_x Annual allowances in accordance with this subpart.

(2) A description of whether a unit is required to monitor and report NO_x emissions using a continuous emission monitoring system (under subpart Hof part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.430 through 97.435 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§ 70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter.

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(e) Additional recordkeeping and reporting requirements. (1) Unless otherwise provided, the owners and operators of each CSAPR NOx Annual source and each CSAPR NOx Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i) The certificate of representation under §97.416 for the designated representative for the source and each CSAPR NOx Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under §97.416 changing the designated representative.

(ii) All emissions monitoring information, in accordance with this subpart.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NOx Annual Trading Program.

(2) The designated representative of a CSAPR NOx Annual source and each CSAPR NOx Annual unit at the source shall make all submissions required under the CSAPR NOx Annual Trading Program, except as provided in §97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter.

(f) Liability. (1) Any provision of the CSAPR NOx Annual Trading Program that applies to a CSAPR NOx Annual source or the designated representative of a CSAPR NOx Annual source shall also apply to the owners and operators of such source and of the CSAPR NOx Annual units at the source.

(2) Any provision of the CSAPR NOx Annual Trading Program that applies to a CSAPR NOx Annual unit or the designated representative of a CSAPR NOx Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities. No provision of the CSAPR NOx Annual Trading Program or exemption under §97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NOx Annual source or CSAPR NOx Annual unit from compliance with any other provision of the applicable, approved

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	State implementation plan, a federally enforceable permit, or the Clean Air Act." B. 40 CFR Part 97 Subpart CCCCC- CSAPR SO₂ Group 1 Trading Program §97.606 - Standard requirements. "(a) <u>Designated representative requirements.</u> The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.613 through 97.618. <u>(b) Emissions monitoring, reporting, and recordkeeping requirements.</u> (1) The owners and operators, and the designated representative, of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.630 through 97.635. (2) The emissions data determined in accordance with §§97.630 through 97.635 shall be used to calculate allocations of CSAPR SO₂ Group 1 allowances under §§97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO₂ Group 1 emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero. <u>(c) SO₂ emissions requirements (1) CSAPR SO₂ Group 1 emissions limitation.</u> (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO₂ Group 1 allowances available for deduction for such control period under §97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all CSAPR SO₂ Group 1 units at the source. (ii) If total SO₂ emissions during a control period in a given year from the CSAPR SO₂ Group 1 units at a CSAPR SO₂ Group 1 source are in excess of the CSAPR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(i) of this section, then: (A) The owners and operators of the source and each CSAPR SO₂ Group 1 unit at the source shall hold the CSAPR SO₂ Group 1 allowances required for deduction under §97.624(d); and
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	(B) The owners and operators of the source and each CSAPR SO₂ Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (2) <u>CSAPR SO₂ Group 1 assurance provisions</u>. (i) If total SO₂ emissions during a control period in a given year from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO₂ emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR SO₂ Group 1 allowances available for deduction for such control period under §97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with §97.625(b), of multiplying- (A) The quotient of the amount by which the common designated representative's share of such SO₂ emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such SO₂ emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total SO₂ emissions from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level. (ii) The owners and operators shall hold the CSAPR SO₂ Group 1 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period. (iii) Total SO₂ emissions from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total SO₂ emissions exceed the sum, for such

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control period, of the State SO₂ Group 1 trading budget under §97.610(a) and the State's variability limit under §97.610(b).

(iv) It shall not be a violation of this subpart or of the Clean Air Act if total SO₂ emissions from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representatives share of total SO₂ emissions from the CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level.

(v) To the extent the owners and operators fail to hold CSAPR SO₂ Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section,

(A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B) Each CSAPR SO₂ Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(3) Compliance periods. (i) A CSAPR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under §97.630(b) and for each control period thereafter.

(ii) A CSAPR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of January 1, 2017, or the deadline for meeting the unit's monitor certification requirements under §97.630(b) and for each control period thereafter.

(4) *Vintage of CSAPR SO₂ Group 1 allowances held for compliance.* (i) A CSAPR SO₂ Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a CSAPR SO₂ Group 1 allowance that was allocated or auctioned for such control period or a control period in a prior year.

(ii) A CSAPR SO₂ Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) of this section for a control period in a given year must be a CSAPR SO₂ Group 1 allowance that was allocated or auctioned for a control period in a prior year or the control period in the given year or in the immediately following year.

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	(5) <u>Allowance Management System requirements.</u> Each CSAPR SO₂ Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart. (6) <u>Limited authorization.</u> A CSAPR SO₂ Group 1 allowance is a limited authorization to emit one ton of SO₂ during the control period in one year. Such authorization is limited in its use and duration as follows: (i) Such authorization shall only be used in accordance with the CSAPR SO₂ Group 1 Trading Program; and (ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act. (7) <u>Property right.</u> A CSAPR SO₂ Group 1 allowance does not constitute a property right. (d) Title V permit requirements. (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR SO₂ Group 1 allowances in accordance with this subpart. (2) A description of whether a unit is required to monitor and report SO₂ emissions using a continuous emission monitoring system (under subpart 8 of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.630 through 97.635 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter. (e) Additional recordkeeping and reporting requirements. (1) Unless otherwise provided, the owners and operators of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator. (i) The certificate of representation under §97.616 for the designated representative for the source and each CSAPR SO₂ Group 1 unit at the

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source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under §97.616 changing the designated representative.

(ii) All emissions monitoring information, in accordance with this subpart.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR SO₂ Group 1 Trading Program.

(2) The designated representative of a CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall make all submissions required under the CSAPR SO₂ Group 1 Trading Program, except as provided in §97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a Title V operating permit program in parts 70 and 71 of this chapter.

(f) Liability. (1) Any provision of the CSAPR SO₂ Group 1 Trading Program that applies to a CSAPR SO₂ Group 1 source or the designated representative of a CSAPR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO₂ Group 1 units at the source.

(2) Any provision of the CSAPR SO₂ Group 1 Trading Program that applies to a CSAPR SO₂ Group 1 unit or the designated representative of a CSAPR SO₂ Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities. No provision of the CSAPR SO₂ Group 1 Trading Program or exemption under §97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR SO₂ Group 1 source or CSAPR SO₂ Group 1 unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act."

ADD THE PROVISIONS OF 40 CFR 97 SUBPART EEEEE (GROUP 2)

C. 40 CFR Part 97 Subpart GGGGG - CSAPR NO_x Ozone Season Group 3 Trading Program

§97.1006 Standard requirements.

(a) Designated representative requirements. The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.1013 through 97.1018.

Commented [MH1]: In accordance with 40 CFR Part 52.38 for the purposes of Part 97 while a stay of the Group 3 Trading Program is in effect, facilities in Maryland shall be subject to Subpart EEEEE – NO_x Ozone Season Group 2 Trading Program

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	(b) <u>Emissions monitoring, reporting and recordkeeping requirements.</u> (1) The owners and operators, and the designated representative, of each CSAPR NOx Ozone Season Group 3 source and each CSAPR NOx Ozone Season Group 3 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.1030 through 97.1035. (2) The emissions data determined in accordance with §§97.1030 through 97.1035 shall be used to calculate allocations of CSAPR NOx Ozone Season Group 3 allowances under §§97.1011(a)(2) and (b) and 97.1012 and to determine compliance with the CSAPR NOx Ozone Season Group 3 emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§97.1030 through 97.1035 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero. (c) <u>NOx emissions requirements -</u> (1) <u>CSAPR NOx Ozone Season Group 3 emissions limitation.</u> (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NOx Ozone Season Group 3 source and each CSAPR NOx Ozone Season Group 3 unit at the source shall hold, in the source's compliance account, CSAPR NOx Ozone Season Group 3 allowances available for deduction for such control period under §97.1024(a) in an amount not less than the tons of total NOx emissions for such control period from all CSAPR NOx Ozone Season Group 3 units at the source. (ii) If total NOx emissions during a control period in a given year from the CSAPR NOx Ozone Season Group 3 units at a CSAPR NOx Ozone Season Group 3 source are in excess of the CSAPR NOx Ozone Season Group 3 emissions limitation set forth in paragraph (c)(1)(i) of this section, then: (A) The owners and operators of the source and each CSAPR NOx Ozone Season Group 3 unit at the source shall hold the CSAPR NOx Ozone Season Group 3 allowances required for deduction under §97.1024(d); and (B) The owners and operators of the source and each CSAPR NOx Ozone Season Group 3 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess

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	emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (2) <i>CSAPR NOx Ozone Season Group 3 assurance provisions.</i> (i) If total NOx emissions during a control period in a given year from all base CSAPR NOx Ozone Season Group 3 units at base CSAPR NOx Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NOx emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NOx Ozone Season Group 3 allowances available for deduction for such control period under §97.1025(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with §97.1025(b), of multiplying - (A) The quotient of the amount by which the common designated representative's share of such NOx emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such NOx emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NOx emissions from all base CSAPR NOx Ozone Season Group 3 units at base CSAPR NOx Ozone Season Group 3 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level. (ii) The owners and operators shall hold the CSAPR NOx Ozone Season Group 3 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period. (iii) Total NOx emissions from all base CSAPR NOx Ozone Season Group 3 units at base CSAPR NOx Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total NOx emissions exceed the sum, for such control period, of the State NOx Ozone Season Group 3 trading budget under §97.1010(a), the State's variability limit under §97.1010(b), and, for the control period in
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2021 only, the product (rounded to the nearest allowance) of 1.21 multiplied by the supplemental amount of CSAPR NOx Ozone Season Group 3 allowances determined for the State under §97.1010(d).

(iv) It shall not be a violation of this subpart or of the Clean Air Act if total NOx emissions from all base CSAPR NOx Ozone Season Group 3 units at base CSAPR NOx Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total NOx emissions from the base CSAPR NOx Ozone Season Group 3 units at base CSAPR NOx Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level.

(v) To the extent the owners and operators fail to hold CSAPR NOx Ozone Season Group 3 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section:

(A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B) Each CSAPR NOx Ozone Season Group 3 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(3) Compliance periods.

(i) A CSAPR NOx Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of May 1, 2021, or the deadline for meeting the unit's monitor certification requirements under §97.1030(b) and for each control period thereafter.

(ii) A base CSAPR NOx Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of May 1, 2021, or the deadline for meeting the unit's monitor certification requirements under §97.1030(b) and for each control period thereafter.

(4) Vintage of CSAPR NOx Ozone Season Group 3 allowances held for compliance.

(i) A CSAPR NOx Ozone Season Group 3 allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a CSAPR NOx Ozone Season Group 3 allowance that was allocated or auctioned for such control period or a control period in a prior year.

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| <p>(ii) A CSAPR NOx Ozone Season Group 3 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (c)(2)(i) through (iii) of this section for a control period in a given year must be a CSAPR NOx Ozone Season Group 3 allowance that was allocated or auctioned for a control period in a prior year or the control period in the given year or in the immediately following year.</p> <p>(5) <u>Allowance Management System requirements.</u> Each CSAPR NOx Ozone Season Group 3 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart.</p> <p>(6) <u>Limited authorization.</u> A CSAPR NOx Ozone Season Group 3 allowance is a limited authorization to emit one ton of NOx during the control period in one year. Such authorization is limited in its use and duration as follows:</p> <p>(i) Such authorization shall only be used in accordance with the CSAPR NOx Ozone Season Group 3 Trading Program; and</p> <p>(ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.</p> <p>(7) <u>Property right.</u> A CSAPR NOx Ozone Season Group 3 allowance does not constitute a property right.</p> <p><u>(d) Title V permit requirements.</u></p> <p>(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NOx Ozone Season Group 3 allowances in accordance with this subpart.</p> <p>(2) A description of whether a unit is required to monitor and report NOx emissions using a continuous emission monitoring system (under subpart Hof part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.1030 through 97.1035 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter.</p> <p><u>(e) Additional recordkeeping and reporting requirements.</u></p> |
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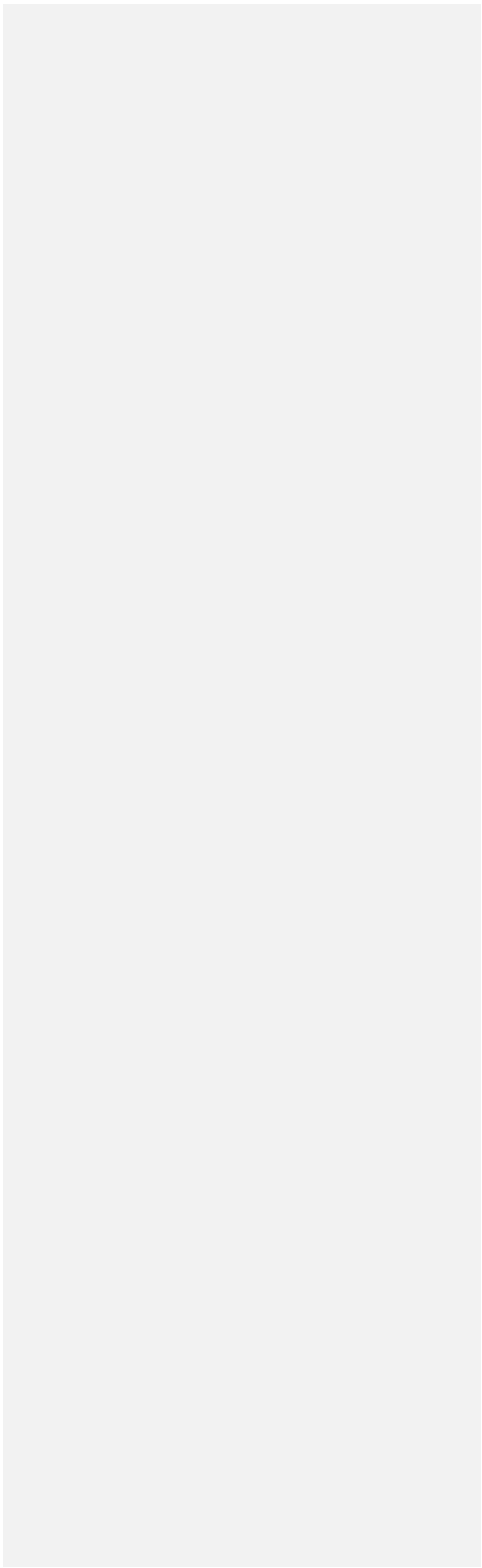
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| <p>(1) Unless otherwise provided, the owners and operators of each CSAPR NOx Ozone Season Group 3 source and each CSAPR NOx Ozone Season Group 3 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.</p> <p>(i) The certificate of representation under §97.1016 for the designated representative for the source and each CSAPR NOx Ozone Season Group 3 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under §97.1016 changing the designated representative.</p> <p>(ii) All emissions monitoring information, in accordance with this subpart.</p> <p>(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NOx Ozone Season Group 3 Trading Program.</p> <p>(2) The designated representative of a CSAPR NOx Ozone Season Group 3 source and each CSAPR NOx Ozone Season Group 3 unit at the source shall make all submissions required under the CSAPR NOx Ozone Season Group 3 Trading Program, except as provided in §97.1018. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter.</p> <p><u>(f) Liability.</u></p> <p>(1) Any provision of the CSAPR NOx Ozone Season Group 3 Trading Program that applies to a CSAPR NOx Ozone Season Group 3 source or the designated representative of a CSAPR NOx Ozone Season Group 3 source shall also apply to the owners and operators of such source and of the CSAPR NOx Ozone Season Group 3 units at the source.</p> <p>(2) Any provision of the CSAPR NOx Ozone Season Group 3 Trading Program that applies to a CSAPR NOx Ozone Season Group 3 unit or the designated representative of a CSAPR NOx Ozone Season Group 3 unit shall also apply to the owners and operators of such unit.</p> <p><u>(g) Effect on other authorities.</u> No provision of the CSAPR NOx Ozone Season Group 3 Trading Program or exemption under §97.1005 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NOx Ozone Season Group 3</p> |
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	source or CSAPR NOx Ozone Season Group 3 unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.
3.2	<u>Testing Requirements:</u> A, B & C: See Monitoring Requirements.
3.3	<u>Monitoring Requirements:</u> A. 40 CFR Part 97 Subpart AAAAA - CSAPR NOx Annual Trading Program The Permittee shall comply with the monitoring requirements found in §97.406, §97.430, and §97.434 for the NOx Annual Trading Program. B. 40 CFR Part 97 Subpart CCCCC - CSAPR SO2 Group 1 Trading Program The Permittee shall comply with the monitoring requirements found in §97.606, §97.630, §97.631, §97.632, and §97.633. The Permittee operates continuous emission-a monitoring system (CEMS) pursuant to 40 CFR Part 75, Subpart B (for SO2 monitoring) and 40 CFR Part 75, Subpart H (for NOx monitoring). <u>C. 40 CFR Part 97 Subpart EEEEE - CSAPR NOx Ozone Season Group 2 Trading Program</u> <u>The Permittee shall comply with the monitoring requirements found in §97.806; §97.830; §97.831, §97.832, and §97.833 for the NOx Ozone Season Group 2 Trading Program.</u> C. 40 CFR Part 97 Subpart GGGGG-CSAPR NOx Ozone Season Group 3 Trading Program The Permittee shall comply with the monitoring requirements found in §97.1006; §97.1030; §97.1031, §97.1032, and §97.1033 for the NOx Ozone Season Group 3 Trading Program.
3.4	<u>Record Keeping Requirements:</u> Note: All records must be maintained for a period of at least 5 years. [Reference: COMAR 26.11.03.06C(5)(g)] A. 40 CFR Part 97 Subpart AAAAA - CSAPR NOx Annual Trading Program The Permittee shall comply with the recordkeeping requirements found in §97.406, §97.430, and §97.434 for the NOx Annual Trading Program. B. 40 CFR Part 97 Subpart CCCCC - CSAPR SO2 Group 1 Trading

Commented [MH2]: While 40 CFR 97 Subpart GGGGG is in effect facilities in Maryland are subject to 40 CFR 97 Subpart EEEEE - CSAPR NOx Ozone Season Group 2 Trading Program.

	Program
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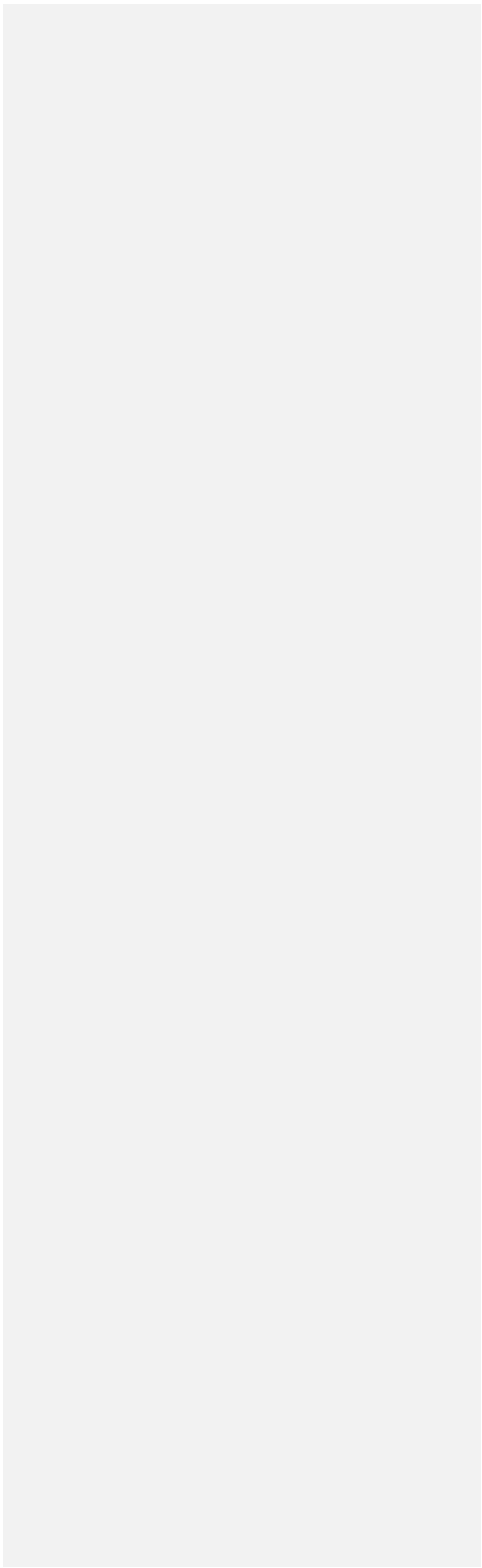
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	The Permittee shall comply with the recordkeeping requirements found in §97.606, §97.630, and §97.634. <u>C. 40 CFR Part 97 Subpart EEEEE-CSAPR NOx Ozone Season Group 2 Trading Program</u> <u>The Permittee shall comply with the recordkeeping requirements found in §97.806; §97.830 and §97.834 for the NOx Ozone Season Group 2 Trading Program.</u> D.C. 40 CFR Part 97 Subpart GGGGG-CSAPR NOx Ozone Season Group 3 Trading Program The Permittee shall comply with the recordkeeping requirements found in §97.1006; §97.1030 and §97.1034 for the NOx Ozone Season Group 3 Trading Program.
3.5	Reporting Requirements: A. 40 CFR Part 97 Subpart AAAAA - CSAPR NOx Annual Trading Program The Permittee shall comply with the reporting requirements found in §97.406, §97.430, §97.433 and §97.434 for the NOx Annual Trading Program. B. 40 CFR Part 97 Subpart CCCCC - CSAPR S502 Group 1 Trading Program The Permittee shall comply with the reporting requirements found in §97.606, §97.630, §97.633 and §97.634. <u>C. 40 CFR Part 97 Subpart EEEEE - CSAPR NOx Ozone Season Group 2 1 Trading Program</u> <u>The Permittee shall comply with the reporting requirements found in §97.806, §97.830, §97.833 and §97.834.</u> C.D. 40 CFR Part 97 Subpart GGGGG-CSAPR NOx Ozone Season Group 3 Trading Program The Permittee shall comply with the reporting requirements found in §97.1006; §97.1030 and §97.1034 for the NOx Ozone Season Group 3 Trading Program.

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

Commented [MH3]: While 40 CFR 97 Subpart GGGGG is in effect facilities in Maryland are subject to 40 CFR 97 Subpart EEEEE - CSAPR NOx Ozone Season Group 2 Trading Program.

Commented [MH4]: While 40 CFR 97 Subpart GGGGG is in effect facilities in Maryland are subject to 40 CFR 97 Subpart EEEEE - CSAPR NOx Ozone Season Group 2 Trading Program.



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SECTION V INSIGNIFICANT ACTIVITIES

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

~~(1) No. 3 Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;~~

~~The stationary affected units are subject to the following requirements:~~

~~(A) COMAR 26.11.09.05E(2), Emissions During Idle Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.~~

~~(B) COMAR 26.11.09.05E(3), Emissions During Operating Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.~~

~~(C) Exceptions:~~

~~(i) COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.~~

~~(ii) COMAR 26.11.09.05E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:~~

~~(a) Engines that are idled continuously when not in service: 30 minutes~~

~~(b) all other engines: 15 minutes.~~

~~(iii) COMAR 26.11.09.05E(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.~~

~~(D) COMAR 26.11.09.07A(2)(b), which establishes that the Permittee may not burn, sell, or make available for sale~~

Commented [MH5]: See the new form attached to the Dickerson application

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~~any distillate fuel with a sulfur content by weight in excess of 0.3 percent.~~

~~(2) — Space heaters utilizing direct heat transfer and used solely for comfort heat; (4 HEATERS)~~

~~(3) — No. 2 — Unheated VOC dispensing containers or unheated VOC rinsing containers of 60 gallons (227 liters) capacity or less;~~

~~The affected units are subject to COMAR 26.11.19.09D, which requires that the Permittee control emissions of volatile organic compounds (VOC) from cold degreasing operations by meeting the following requirements:~~

~~(a) — COMAR 26.11.19.09D(2)(b), which establishes that the Permittee shall not use any VOC degreasing material that exceeds a vapor pressure of 1 mm Hg at 20 °C;~~

~~(b) — COMAR 26.11.19.09D(3)(a-d), which requires that the Permittee implement good operating practices designed to minimize spills and evaporation of VOC degreasing material. These practices, which shall be established in writing and displayed such that they are clearly visible to operators, shall include covers (including water covers), lids, or other methods of minimizing evaporative losses, and reducing the time and frequency during which parts are cleaned;~~

~~(c) — COMAR 26.11.19.09D(4), which prohibits the use of any halogenated VOC for cold degreasing.~~

~~The Permittee shall maintain on site for at least five (5) years, and shall make available to the Department upon request, the following records of operating data:~~

~~(a) — Monthly records of the total VOC degreasing materials used; and~~

~~(b) — Written descriptions of good operating practices designed to minimize spills and evaporation of VOC degreasing materials.~~

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- (4) ~~Equipment for drilling, carving, cutting, routing, turning, sawing, planing, spindle sanding, or disc sanding of wood or wood products;~~
- (5) ~~Brazing, soldering, or welding equipment, and cutting torches related to manufacturing and construction activities that emit HAP metals and not directly related to plant maintenance, upkeep and repair or maintenance shop activities;~~
- (6) ~~Containers, reservoirs, or tanks used exclusively for:~~
 - (a) ~~Storage of butane, propane, or liquefied petroleum, or natural gas;~~
 - (b) ~~No. 2 Storage of lubricating oils;~~
 - (c) ~~No. 6 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;~~
 - (d) ~~No. 2 The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;~~
- (7) ~~First aid and emergency medical care provided at the facility, including related activities such as sterilization and medicine preparation used in support of a manufacturing or production process;~~
- (8) ~~Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks display, and kerosene fuel use;~~
- (9) ~~Potable water treatment equipment, not including air stripping equipment;~~
- (10) ~~Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;~~

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SECTION VI STATE-ONLY ENFORCEABLE CONDITIONS

The Permittee is subject to the following State-only enforceable requirements:

Applicable Regulations:

COMAR 26.11.06.08 - Nuisance. "An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be construed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution."

COMAR 26.11.06.09 - Odors. "A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created."

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BACKGROUND

The Dickerson Generating Station is engaged in the generation of electric energy for sale. The primary SIC code for this facility is 4911. The major components of the facility consist of ~~an oil-fired combustion turbine primarily used for black start and peaking service, and~~ two (2) peaking service combustion turbines primarily firing natural gas located on site at Station H.

~~The single black-start combustion turbine (CT), manufactured by Pratt & Whitney is used both for black start capability and peaking service. The combustion turbine is No. 2 oil fired and rated at 18 megawatts.~~

The two (2) combustion turbines manufactured by General Electric are used for peaking capacity. Each is rated at 167 megawatts and fires primarily natural gas and No. 2 fuel oil as secondary fuel. Each combustion turbine exhausts through a 213-foot stack.

~~Dickerson Generating was formerly part of a larger facility owned by GenOn Mid Atlantic, LLC (GenOn). In addition to the previous retirement of three (3) coal fired boilers at the facility, GenOn notified the Department on December 22, 2023, of the permanent retirement of the Pratt and Whitney FT4-A combustion turbine, EU DCT-1, used for black start and peaking service emission. This Title V renewal application therefore does not include EU DCT-1. GenOn Mid Atlantic, LLC submitted to the Department a modification to the renewal application dated May 22, 2020, for the retirement of the coal units [D-1 thru D-3, three (3) coal fired boilers (3-0001 thru 3-0003)] in August 2020.~~

~~Because of the removal of the coal unit, the facility will be issued an initial Title V operating permit with a new name for the combustion turbines.~~

The following table summarizes the actual emissions from Dickerson Generating Station based on its Annual Emission Certification Reports:

Table 1: Actual Emissions

Year	NOx (TPY)	SOx (TPY)	PM10/PM2.5 (TPY)	CO (TPY)	VOC (TPY)	Total HAP (TPY)
2024	84.24	1.03	1.81	80.93	2.20	0.96
2023	169.03	1.46	3.37	149.9	3.95	1.81
2022	68.56	3.28	1.38	53.25	1.52	0.67
20212016	215.6	4.72	13.86	169.62	4.35	2.14
2015	216.8	14.87	13.82	164.79	4.24	2.12
2014	70.08	61.03	4.16	23.88	0.68	0.54

The major source threshold for triggering Title V permitting requirements in Montgomery County is 25 tons per year for VOC and NOx, 100 tons per year for any other criteria pollutants and 10 tons for a single HAP or 25 tons per year for total HAPs. Since the actual NOx emissions from the facility are greater than the

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major source threshold, Dickerson Generating Station is required to obtain a Title V - Part 70 Operating Permit under COMAR 26.11.03.01.

The Department, on ~~October XX, 2025~~ ~~November 1, 2019~~, received the Dickerson Generating Station's Part 70-permit renewal application, which was submitted by ~~PGenOn Mid-Atlantic, LLC~~ Dickerson Power, LLC. An administrative completeness review was conducted, and the application was deemed complete. A completeness determination letter was sent to Dickerson Power, LLC ~~GenOn Mid-Atlantic, LLC~~ on November ~~XX7, 2025~~ ~~19~~, granting Dickerson Generating Station an application shield. ~~A modification to the application was submitted on May 23, 2020, via email. The modification includes the separation of the combustion turbines under a new Title V Permit. The purpose of the separation is to prepare one or both entities for a potential future sale.~~

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GenOn notified the Department on December 22, 2023, of the permanent retirement of the Pratt and Whitney FT4-A combustion turbine, EU DCT-1, used for black start and peaking service emission. This unit has been removed from the Title V permit.

~~The three (3) coal fired boilers were retired from operation. An email on July 30, 2020, from the facility stated that Dickerson coal units came offline for the last time this morning, July 30, 2020, Unit 1 at 6:07 am. Unit 2 came off a little earlier, at 4:56 am. Unit 3 has been off since July 1, 2020, with a turbine problem that was not fix. GenOn permanently retired the three units on August 13, 2020. On October 2, 2020, the Department received submittal of the "Retired Unit Exemption Notices" for Dickerson Generating Station Units 1, 2, & 3 for the Acid Rain and CSAPR Programs.~~

~~On November 13, 2020, GenOn Mid-Atlantic, LLC had its name changed to Lanyard Power Holdings, LLC.~~

~~A letter dated January 5, 2022, from Lanyard Power Holdings, LLC stating that the company is not seeking renewal permits for the retired coal units, since these units are retired and will remain permanently retired.~~

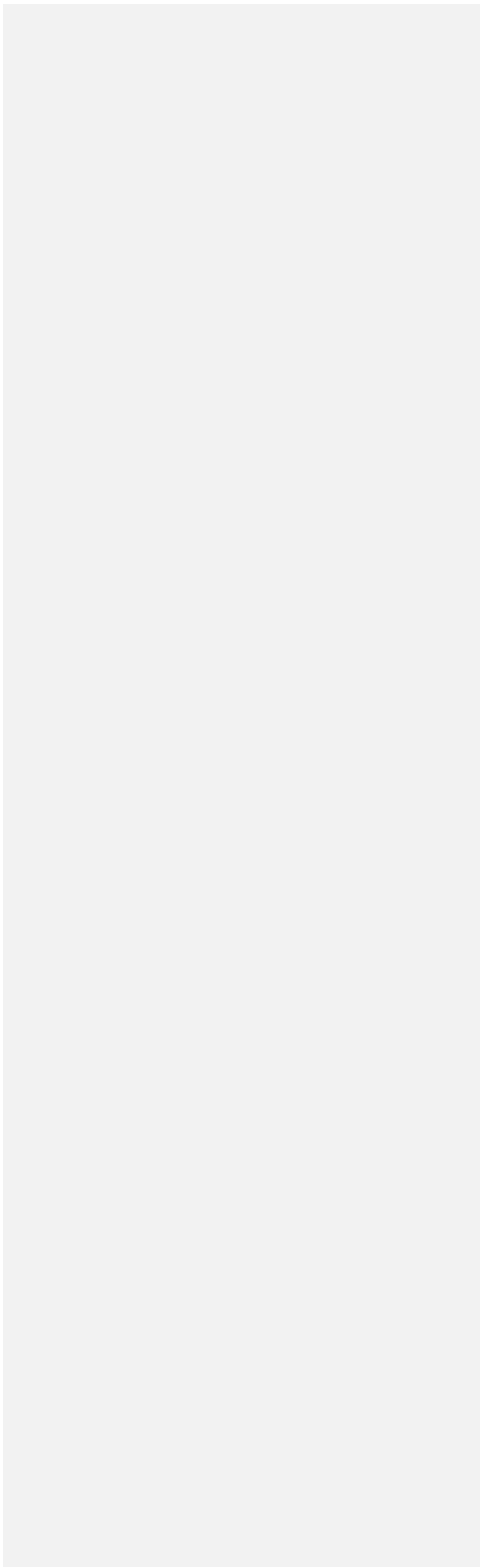
NSPS

Dickerson Generating Station is subject to NSPS (40 CFR Part 60), **Subpart GG-Standards of Performance for Stationary Gas Turbines (HCT-1 & HCT-2).**

Dickerson Generating Station is subject to the NOx Reasonably Available Control Technology (RACT) requirements and Acid Rain Program. A Certificate of Public Convenience and Necessity (CPCN) #8063 was issued for Combustion turbines **(HCT-1 & HCT-2).**

CROSS-STATE AIR POLLUTION RULE (CSAPR)

The U.S. Environmental Protection Agency (EPA) issued the Cross-State Air Pollution Rule (CSAPR) in July 2011 to address Clean Air Act requirements concerning interstate transport of air pollution and to replace the previous Clean Air Interstate Rule (CAIR) which the D.C. Circuit remanded to the EPA for replacement. Following the original rulemaking, CSAPR was amended by three



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further rules known as the Supplemental Rule, the First Revisions Rule, and the Second Revisions Rule. As amended, CSAPR requires 28 states to limit their state-wide emissions of sulfur dioxide (SO₂) and/or nitrogen oxides (NO_x) in order to reduce or eliminate the states' contributions to fine particulate matter and/or ground-level ozone pollution in other states. The emissions limitations are defined in terms of maximum state-wide "budgets" for emissions of annual SO₂, annual NO_x, and/or ozone season NO_x by each state's large electricity generating units (EGUs). The emissions budgets are implemented in two phases of generally increasing stringency. As the mechanism for achieving compliance with the emissions limitations, CSAPR establishes federal implementation plans (FIPs) that require large EGUs in each affected state to participate in one or more new emission trading programs that supersede the existing CAIR emissions trading programs. On December 30, 2011, in response to petitions challenging CSAPR, the D.C. Circuit granted a stay of the rule, ordering the EPA to continue administering CAIR on an interim basis. In a subsequent decision, the Court vacated CSAPR but on April 29, 2014, the U.S. Supreme Court reversed that decision and remanded the case to the D.C. Circuit Court for further proceedings. In order to allow CSAPR to replace CAIR in an orderly manner, EPA filed a motion asking the D.C. Circuit to lift the stay and to toll, by three years, all CSAPR compliance deadlines that had not yet passed. On October 23, 2014, the Court granted the EPA's motion.

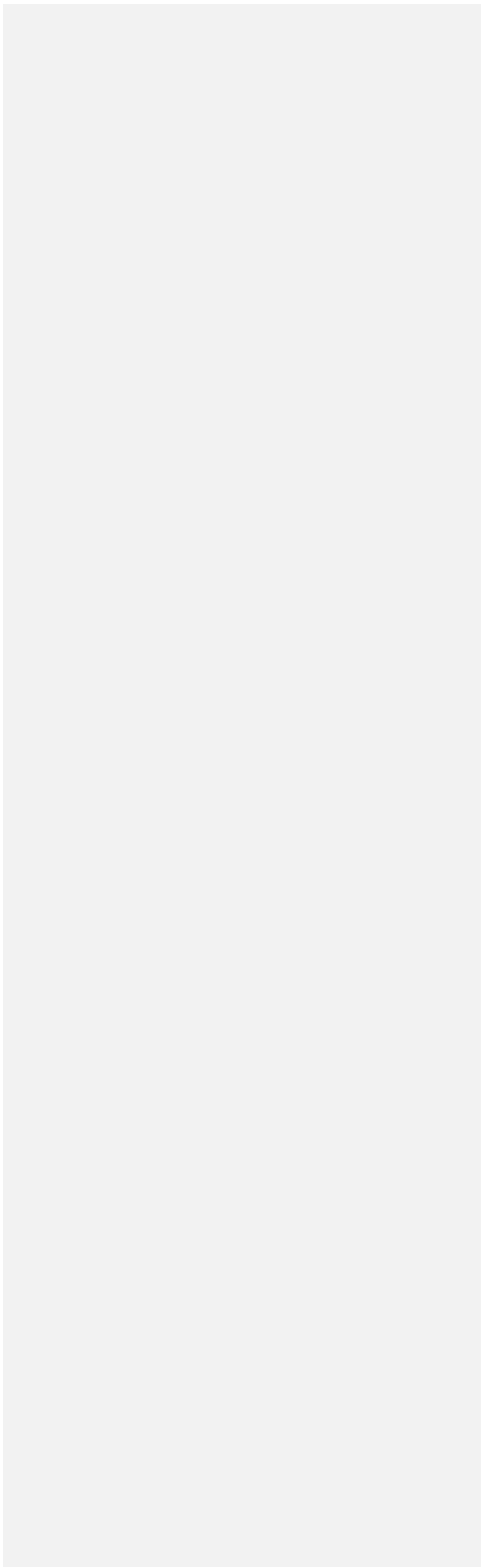
Consistent with the Court's order, compliance with CSAPR's Phase 1 emissions budgets was required in 2015 and 2016 and compliance with the rule's Phase 2 emissions budgets and assurance provisions is required from 2017 and beyond.

On September 7, 2016, EPA finalized the CSAPR Update, which further reduced NO_x emissions from EGUs in 22 states during the ozone season, May 1 thru September 30, thereby reducing pollution transport and helping downwind states achieve and maintain the 2008 ozone standard (75 ppb). On October 26, 2016, CSAPR Update was published in the federal register, with an effective date of December 27, 2016.

On March 15, 2021, EPA finalized the Revised Cross-State Air Pollution Rule Update for the 2008 ozone National Ambient Air Quality Standards (NAAQS). Starting in the 2021 ozone season, the rule will require additional emissions reductions of nitrogen oxides (NO_x) from power plants in 12 states, improving air quality for millions of Americans. The final rule was published in the Federal Register on April 30, 2021, with an effective date of June 29, 2021.

ADD TEXT ON RECENT CHALLENGES TO AND THE CURRENT STAY IN EFFECT FOR SUBPART GGGGG

This ~~initial~~ Part 70 permit identifies the applicable regulations of the CSAPR rule as found in 40 CFR Part 97 subparts AAAAA- NO_x Annual Trading Program, subparts ~~EEEE~~ and GGGGG- CSAPR NO_x Ozone Season Group 2 and 3 Trading Programs, respectively, and subpart CCCCC SO₂ Group 1 Trading Program.



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REGIONAL GREENHOUSE GAS INITIATIVE

The Regional Greenhouse Gas Initiative (RGGI) is a market-based carbon dioxide (CO₂) cap and trade program designed to reduce CO₂ emissions from fossil fuel-fired power plants. It is a Maryland State-only enforceable program. The Healthy Air Act required Maryland to join RGGI by July 2007. Maryland joined RGGI by signing RGGI's multi-state Memorandum of Understanding (MOU) on April 20, 2007. The MOU requires Maryland to adopt regulations by December 31, 2008, implementing the RGGI program. The Maryland CO₂ Budget Trading Program, Code of Maryland Regulations (COMAR) 26.09.01 to .03, became effective on July 17, 2008. COMAR 26.09.04 became effective as an emergency action on April 4, 2008, and as a permanent action on August 25, 2008.

The regulations require the following:

- 1) Implement a cap-and-trade program for CO₂ emissions from fossil fuel-fired electric generating units located in Maryland having a capacity of at least 25 megawatts;
- 2) Distribute CO₂ allowances to stakeholders through auction, sale and/or allocation;
- 3) Require each affected source to have a CO₂ budget account representative and a compliance account;
- 4) Require each budget unit to hold in its source's compliance account at the end of each 3-year control period one allowance for each ton of CO₂ emissions emitted in that period;
- 5) Require sources to monitor emissions and submit quarterly and annual emission reports;
- 6) Establish set-aside accounts for voluntary renewable purchase, limited industrial generator exemptions, and long-term contract generators;
- 7) Establish a consumer benefit or strategic energy purpose fund to support energy efficiency, directly mitigate electricity ratepayer impacts, promote renewable or non-carbon emitting energy technologies, stimulate or reward investment in the development of innovative carbon emissions abatement technologies with significant carbon reduction potential, and fund administration of the program; and
- 8) Establish procedures to evaluate and award allowances to persons who undertake offset projects that will reduce CO₂ emissions.
- 9) Require affected sources to submit an application for a CO₂ Budget Permit. A CO₂ Budget Permit when issued will be an attachment to the Part 70 permit.

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GREENHOUSE GAS (GHG) EMISSIONS

Dickerson Generating Station emits the following greenhouse gases (GHGs) related to Clean Air Act requirements: carbon dioxide, methane, and nitrous oxide. These GHGs originate from various processes (combustion turbines) contained within the facility premises applicable to Dickerson Generating Station. The facility has not triggered Prevention of Significant Deterioration (PSD) requirements for GHG emissions; therefore, there are no applicable GHG Clean Air Act requirements. While there may be no applicable requirements as a result of PSD, emission certifications report for the years ~~2016~~2021, ~~2017~~2022, ~~2018~~2023 and ~~2019~~2024, showed that Dickerson Generating Station is a major source (threshold: 100,000tpy CO₂e) for GHG's (see Table 2 shown below). The Permittee shall quantify facility wide GHGs emissions and report them in accordance with Section 3 of the Part 70 permit. The following table summarizes the actual emissions from Dickerson Generating Station based on its Annual Emission Certification Reports:

Table 2: Greenhouse Gases Emissions Summary

GHG	Conversion factor	20 t-CO ₂ e	20 tpy-CO ₂ e	20 tpy-CO ₂ e	20 tpy-CO ₂ e
Carbon-dioxide-CO ₂	<u>1</u>				
Methane-CH ₄	<u>25</u>				
Nitrous-Oxide-N ₂ O	<u>298</u>				
Total GHG-CO ₂ ea					

GHG	Conversion factor	<u>2021</u> tpy CO ₂ e	<u>2022</u> tpy CO ₂ e	<u>2023</u> tpy CO ₂ e	<u>2024</u> tpy CO ₂ e
<u>Carbon dioxide CO₂</u>	<u>1</u>	<u>139,491.37</u>	<u>85,095.75</u>	<u>218,305.38</u>	<u>100,194.96</u>
<u>Methane CH₄</u>	<u>25</u>	<u>66.5</u>	<u>46</u>	<u>101.5</u>	<u>52.25</u>
<u>Nitrous Oxide N₂O</u>	<u>298</u>	<u>83.44</u>	<u>68.54</u>	<u>122.18</u>	<u>65.56</u>
<u>Total GHG CO₂</u>	-	<u>139,641.31</u>	<u>85,210.29</u>	<u>218,529.06</u>	<u>100,312.77</u>

EMISSION UNIT IDENTIFICATION

Dickerson Generating Station has identified the following emission units as being subject to Title V permitting requirements and having applicable requirements.

Table 3: Emission Unit Identification

Emissions Unit Number	MDE-ARA Registration Number	Emissions Unit Name and Description	Date of Installation
DCT-1	4-0907	Unit DCT-1 is a Pratt and Whitney FT4-A combustion turbine and utilized for black-start and peaking service. The combustion turbine is rated at 18 megawatts, fires No.2 fuel oil.	March 1967

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Emissions Unit Number	MOE-ARA Registration Number	Emissions Unit Name and Description	Date of Installation
HCT-1 (CAMD ID: GT2)	9-0362	Unit HCT-1 is a General Electric Frame 7F combustion turbine that fires primarily natural gas and No. 2 fuel oil as a secondary fuel. The combustion turbine has a rated capacity of 167 megawatts. The combustion turbine is equipped with inlet taggers to maintain output at high ambient temperatures and with water injection to control NOx emissions. The exhaust is directed to a single 130 213 -foot high stack.	June 1992
HCT-2 (CAMD ID: GT3)	9-0363	Unit HCT-2 is a General Electric Frame 7F combustion turbine that fires primarily natural gas and No. 2 fuel oil as a secondary fuel. The combustion turbine has a rated capacity of 167 megawatts. The combustion turbine is equipped with inlet foggers to maintain output at high ambient temperatures and with water injection to control NOx emissions. The exhaust is directed to a single 213 130 -foot-high stack.	June 1993

AN OVERVIEW OF THE PART 70 PERMIT

The Fact Sheet is an informational document. If there are any discrepancies between the Fact Sheet and the Part 70 permit, the Part 70 permit is the enforceable document.

Section I of the Part 70 Permit contains a brief description of the facility and an inventory list of the emissions units for which applicable requirements are identified in Section IV of the permit.

Section II of the Part 70 Permit contains the general requirements that relate to administrative permit actions. This section includes the procedures for renewing, amending, reopening, and transferring permits, the relationship to permits to construct and approvals, and the general duty to provide information and to comply with all applicable requirements.

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Section III of the Part 70 Permit contains the general requirements for testing, record keeping and reporting; and requirements that affect the facility as a whole, such as open burning, air pollution episodes, particulate matter from construction and demolition activities, asbestos provisions, ozone depleting substance provisions, general conformity, and acid rain permit. This section includes the requirement to report excess emissions and deviations, to submit an annual emissions certification report and an annual compliance certification report, and results of sampling and testing.

Section IV of the Part 70 Permit identifies the emissions standards, emissions limitations, operational limitations, and work practices applicable to each emissions unit located at the facility. For each standard, limitation, and work practice, the permit identifies the basis upon which the Permittee will demonstrate compliance. The basis will include testing, monitoring, record keeping, and reporting requirements. The demonstration may include one or more of these methods.

Section V of the Part 70 Permit contains a list of insignificant activities. These activities emit very small quantities of regulated air pollutants and do not require a permit to construct or registration with the Department. For insignificant activities that are subject to a requirement under the Clean Air Act, the requirement is listed under the activity.

Section VI of the Part 70 Permit contains State-only enforceable requirements. Upon issuance of the Part 70 Permit, the Part 70 permit supersedes the facility's current State Permit to Operate. Section VI identifies requirements that are not based on the Clean Air Act, but solely on Maryland air pollution regulations. These requirements generally relate to the prevention of nuisances and implementation of Maryland's Air Toxics Program.

**REGULATORY REVIEW/TECHNICAL REVIEW/COMPLIANCE
METHODOLOGY**

Emissions Unit Number~~St~~ **D-CT 1: Combustion Turbine**

~~D-CT 1: One (1) Pratt and Whitney FT4-A combustion turbine rated at 18-megawatts, fires No.2 fuel oil and utilized for black start and peaking service. [4-0907]~~

~~This combustion turbine was installed prior to subpart GG standards and therefore is not subject to 40 CFR Part 60, subpart GG and has no NOx controls.~~

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The facility is not a major source of HAPs. The CT is not subject to the requirements of 40 CFR Part 63, Subpart YYY National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines since they were constructed prior to March 5, 2004.

Compliance Status

This CT operated as follows:

10.4 hours in 2019. Capacity factor less than 15% (0.02% in 2019) as stated in the 2019 Annual Compliance Certification Report. Method 9 was performed on the unit on November 26, 2019, no visible emissions observed.

2020: Capacity factor less than 15% (0.03% in 2020) as stated in the 2020 ~~A-Comp Report.~~

2020 Emissions Certification Report:

Tons/yr.	NOx	SOx	CO	PM10/PM2.5	VOC
CT1	3.30	0.18	0.01	0.03	0.0

Applicable Standards and limits

A. Control of Visible Emissions

COMAR 26.11.09.05 - Visible Emissions:

"A. Fuel Burning Equipment. _____"

(2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity.

(3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period."

Compliance Demonstration

The Permittee shall verify that there are no visible emissions when operating. An observer shall perform an EPA Reference Method 9 observation of stack emissions for 18-minute period at least once every 168 hours of operation. If the turbine operates less than 100 hours in a calendar year, the visual observation requirement for that calendar year is waived.

The Permittee shall perform the following if emissions are visible to human observer:

- (a) inspect combustion control system and combustion turbine operations;
- (b) perform all necessary adjustments and/or repairs to the combustion turbine within 48 hours of operation so that visible emissions are eliminated; and

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(c) document in writing the results of inspections, adjustments and/or repairs to the combustion turbine;
(d) after 48 hours of operation, if the required adjustments and/or repairs had not eliminated the visible emissions, the Permittee shall perform a Method 9 observation once daily when combustion turbine is operating for 18 minutes until corrective action have eliminated visible emissions.
The Permittee shall maintain a copy of the visible emissions readings on site for at least five years and make available to the Department upon request.
The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations". **[Reference: COMAR 26.11.03.06C]**

Rationale for Periodic Monitoring:

Combustion turbines that burn No. 2 fuel oil rarely have visible emissions if properly operated and maintained. This turbine only operates about 10.0 hours per year. There is more than sufficient time to perform maintenance.

B. Control of Sulfur Oxides

COMAR 26.11.09.07A(2) - Sulfur Content Limitations for Fuel

"A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: In Areas III and IV:

- (a) All solid fuels, 1.0 percent;
- (b) Distillate fuel oils, 0.3 percent;**
- (c) Residual fuel oils, 1.0 percent."

Compliance Demonstration

The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of the fuel oil. The Permittee shall maintain a copy of the visible emissions readings on site for at least five years and make available to the Department upon request. The Permittee shall report fuel supplier certifications to the Department upon request. **[Reference: COMAR 26.11.09.07C]**

Rationale for periodic monitoring:

This strategy to certify sulfur content in oil is similar to the requirements for boilers under New Source Performance Standards, Subpart De.

C. Control of Nitrogen Oxides

COMAR 26.11.09.08G. - Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less, and Combustion Turbines with a Capacity Factor Greater than 15 Percent.

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~~"(1) A person who owns or operates fuel burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall:~~
~~(a) Provide certification of the capacity factor of the equipment to the Department in writing;~~
~~(b) For fuel burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually;~~
~~(c) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request."~~

Compliance Demonstration

~~The Permittee, if the turbines operate more than 500 hours, shall perform a combustion analysis and optimize combustion at least once annually.~~
~~[Reference: COMAR 26.11.09.08G(1)(b)]. If the Permittee operates the engine in excess of 15 percent capacity factor, the Permittee shall demonstrate compliance with the 65 ppm limit (on oil) by performing an EPA Reference Method Test within 120 days after exceeding the 15 percent capacity factor. The Permittee shall submit a test protocol to the Department for approval at least 30 days prior to the proposed test date. For engines that operate more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion. The Permittee shall calculate the capacity factor of the engine within 30 days after the end of each month. [Reference: COMAR 26.11.03.06C].~~

~~The Permittee shall maintain the results of the combustion analysis and any stack tests at the site for at least 5 years and make these results available to the Department and the EPA upon request. The Permittee shall maintain records of the calculations of the capacity factors. [Reference: COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C]~~

~~The Permittee shall provide certification of the annual capacity factor of the equipment to the Department with the support documentation in the Annual Emission Certification Report. [Reference: COMAR 26.11.09.08G(1)(a) COMAR 26.11.03.06C].~~

Emissions Unit Number(s): HCT-1: (CAMD ID-GT2) & HCT-2: (CAMD ID-GT3): Combustion Turbines

HCT-1 & HCT-2: Two (2) General Electric Frame 7F combustion turbines each with a nominal rated capacity of 167 megawatts located at Station H. These combustion turbines fire primarily natural gas and No. 2 fuel oil as a secondary fuel. The units are equipped with inlet taggers to maintain output at high ambient temperatures and with water injection to control NOx emissions. [9-0362 & 9-0363]

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These turbines were installed in 1992 and 1993 respectively. The units received a Certificate of Public Convenience (CPCN) Order No. 68851 **Case #8063** issued July 2, 1990, which sets limits for annual emissions of carbon monoxide, PM10, total particulates, VOC, NOx and SO2 expressed in tons. The project triggered a Prevention of Significant Deterioration (PSD) approval because the projected annual emissions of from the proposed project exceeded the major modification thresholds for NOx, CO, PM, and SO2. The application for the project was received prior to November 15, 1990, so the project did not trigger major new source review (NSR) for non-attainment for NOx.

The original proposal for Station H was a plant to be built in stages. Element I of the project was the construction of four simple cycle combustion turbines. Element II of the project called for the addition of two heat recovery steam generators, one for each pair of combustion turbines. In addition, there was to be the addition of a small auxiliary boiler. Most of the project did not materialize. Only two simple cycle combustion turbines were ever constructed. The conditions in the CPCN that was issued for Station H that refer to Element II including the auxiliary boiler are null and obsolete. Only two of the four combustion turbines (HCT1 and HCT2) initially proposed as Element I are part of this Title V permit

The BACT determination for NOx for the project was to install water injection in the turbines to achieve a 42 ppm at 15% O2 when firing natural gas and the following limits when firing No. 2 fuel oil:

for 57 N 0.015

and

57 + 400N for N > 0.015

where N is the nitrogen content of the fuel in percent by weight.

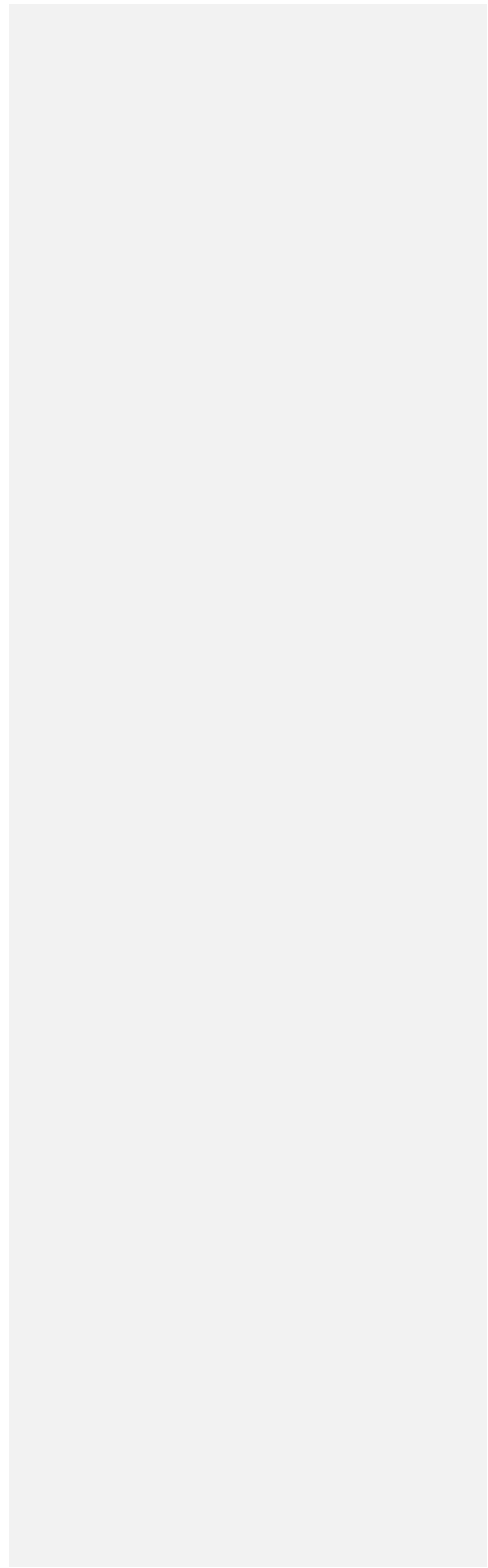
The BACT determination for SO2 for the project was a restriction limiting the sulfur content in the No. 2 fuel oil burned in the combustion turbines and auxiliary boiler to not more than 0.3% by weight.

The combustion turbines operate during peak electricity demand and therefore have low-capacity factors. The combustion turbines are also subject to the requirements of 40 CFR 60 Subpart GG.

The facility is a not major source of HAPs. The CTs are not subject to the requirements of 40 CFR Part 63, Subpart YYYY-National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines since they were constructed prior to March 5, 2004.

Compliance Status

July 27-August 10, 2021, NOx stack test was conducted **HCT-2**. The tests were conducted using EPA Method 7E. Testing was done at 4 specified loads conditions for



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each fuel (oil and gas) to determine the NO_x emission of HCT-2. Results are as follows: on gas-24.82 ppm (0.069 lbs./MMBtu) and on oil: 40.10 ppm (0.121 lbs./MMBtu). As required in 40 CFR 75.19, a new fuel and unit specific NO_x emission rate is required every 5 years.

2024~~19~~ capacity factors for the CT are as follows:

HCT-1 = ~~3.70%~~ 7.73% operated ~~415~~ 677.5 hours; HCT-2 = ~~4.50%~~ 7.67% operated ~~479.3~~ 671.9 hours. Method 9 was conducted on both units on ~~March 7, 2019~~ XX, 2025. No visible emissions were observed.

2020 capacity factor for the CTs are less than 15% and are as follows: HCT-1: 1.65% & HCT-2: 1.04% as stated in the 2020 A-Com-ort

2024~~0~~ E Certification Report

Tons/yr.	NO _x	SO _x	CO	PM10/PM2.s	VOE
HCT-1	18.79 51.20	0.14 0.66	10.09 37.68	0.91 3.14	0.26 0.97
HCT-2	10.11 32.90	0.10 0.36	6.22 37.81	0.08 3.06	0.16 0.97

Applicable Standards and limits

A. Control of Visible Emissions

COMAR 26.11.09.05 - Visible Emissions.

"A. Fuel Burning Equipment.

(2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity.

(3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty-minute period."

Compliance Demonstration

The Permittee shall verify that there are no visible emissions when burning No.2 fuel oil. An observer shall perform an EPA Reference Method 9 observation of stack emissions for 18-minute period at least once every 168 hours of operation on oil or at a minimum once per calendar year.

The Permittee shall perform the following if emissions are visible to human observer:

- (a) inspect combustion control system and combustion turbine operations,
- (b) perform all necessary adjustments and/or repairs to the combustion turbine within 48 hours of operation so that visible emissions are eliminated; and

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(c) document in writing the results of inspections, adjustments and/or repairs to the combustion turbine.

(d) after 48 hours of operation, if the required adjustments and/or repairs had not eliminated the visible emissions, the Permittee shall perform a Method 9 observation once daily when combustion turbine is operating for 18 minutes until corrective action have eliminated visible emissions. The requirement for the observation is waived if no fuel oil is burned in the combustion turbines during a calendar year. The Permittee shall maintain a copy of the visible emissions observations on site for at least five years and make available to the Department upon request. The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section 111, Plant Wide Conditions, "Report of Excess Emissions and Deviations". **[Reference: COMAR 26.11.03.06C]**

Rationale for Periodic Monitoring:

Combustion turbines when burning natural gas or No. 2 fuel oil rarely have visible emissions if properly operated and maintained. The turbines only operate less than 500 hours per year and the majority of time on natural gas. There is more than sufficient time to perform maintenance.

B. Control of Sulfur Oxides

1. PSD Approval

COMAR 26.11.09.07A(2) & CPCN Order No. 68851 Case No. 8063 condition 27 which limits sulfur in fuel content to no more than 0.3% sulfur, by weight.

CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits sulfur emissions to 34 pounds per hour per combustion turbine when firing natural gas and 579 pounds per hour when firing distillate fuel oil. Total annual emissions of SO₂ from the two turbines are limited to 1249 tons in any consecutive 12-month period.

2. NSPS Subpart GG

40 CFR §60.333 which limits sulfur in fuel content to 0.8%.

Compliance Demonstration

1. PSD Approval & NSPS Subpart GG:

The Permittee shall NSPS fuel oil, gas testing and sampling requirements and Acid Rain Monitoring Requirements. **[Reference: 40 CFR §60.334, CPCN 8063 Condition 16, & 40 CFR Appendix B]**

The Permittee shall comply with the fuel flow and heat input monitoring requirements. **[Reference: 40 CFR 75 Appendix D]**

The Permittee shall maintain file of all measurements of testing and monitoring. **[Reference: 40 CFR §60.7(f)]**

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The Permittee shall submit quarterly reports to the Department and the Public Service Commission. [Reference: 40 CFR §60.334(j) & CPCN Order No. 68851 Case No. 8063 condition 28]

Acid Rain Provisions

The Permittee shall comply with the requirements of the renewal Phase II Acid Rain Permit issued in conjunction with this Part 70 permit. The Acid Rain Permit is attached to the permit in Appendix A.

Cross-State Air Pollution Rule

See Table IV-3: CSAPR for requirements

C. Control of Nitrogen Oxides

1. NOx RACT

COMAR 26.11.09.08G. - Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less, and Combustion Turbines with a Capacity Factor Greater than 15 Percent.

"(1) A person who owns or operates fuel-burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall:

(a) Provide certification of the capacity factor of the equipment to the Department in writing;

(b) For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually;

(c) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request."

(2) A person who owns or operates a combustion turbine with a capacity factor greater than 15 percent shall meet an hourly average NOx emission rate of not more than 42 ppm when burning gas or 65 ppm when burning oil (dry volume at 15 percent oxygen) or meet applicable Prevention of Significant Deterioration limits, whichever is more restrictive."

Compliance Demonstration

If the gas turbine operates more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion at least once annually. [Reference: COMAR 26.11.09.08G(1)(b)] If the Permittee operates the engine in excess of 15 percent capacity factor, the Permittee shall demonstrate compliance with the 42-ppm limit (on gas) by performing an EPA Reference Method Test within 120 days after exceeding the 15 percent capacity factor. The Permittee shall submit a test protocol to the Department for approval at least 30 days prior to the proposed test date. For engines that operate more than 500 hours during a calendar year, the Permittee shall perform a combustion

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analysis and optimize combustion. The Permittee shall calculate the capacity factor of the engine within 30 days after the end of each month. **(Reference: COMAR 26.11.03.06C).**

The Permittee shall maintain the results of the combustion analysis and any stack tests at the site for at least 5 years and make these results available to the Department and the EPA upon request. The Permittee shall maintain records if the calculations of the capacity factors. **[Reference: COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C]**

The Permittee shall provide certification of the annual capacity factor of the equipment to the Department with the support documentation in the Annual Emission Certification Report. **[Reference: COMAR 26.11.09.08G(1)(a) COMAR 26.11.03.06C].**

2. PSD Limitation

CPCN Order No. 68851 Case No. 8063 condition 15 which limits NO_x emissions to no more than 42 parts per million dry (ppmvd) at 15 percent O₂ when firing natural gas. When firing No. 2 fuel oil, emissions, in ppmvd at 15 percent O₂ will be limited to no more than:

$$\begin{aligned} &57 \quad \text{for } N \leq 0.015 \\ &\quad \text{and} \\ &57 + 400N \quad \text{for } N > 0.015 \end{aligned}$$

where N is the nitrogen content of the fuel in percent by weight.

Maximum moisturization will be used to control NO_x emissions from the combustion turbines for Elements I and II. For this purpose, maximum moisturization is defined as the highest practical combustion zone water injection rate that can be used to control the emissions of nitrogen oxides consistent with manufacturer's guarantees. Maximum moisturization, and the resulting NO_x emissions limits, ~~will be were~~ determined from tests performed by GenOn. GenOn ~~will submit~~ submitted what has been determined by these tests to be the definition of maximum moisturization to the Maryland Departments of Natural Resources and Environment for approval. At no time will the water to fuel ratio be less than that needed to achieve the following NO_x emissions limits.

CPCN Order No. 68851 Case No. 8063 condition 17 and 18 which limits NO_x emissions from each combustion turbine to 321 pounds per hour when firing natural gas and 608 pounds per hour when firing distillate fuel oil. Total annual emissions of NO_x from the two turbines are limited to 1311 tons per consecutive 12-month period.

CPCN Order No. 68851 Case No. 8063 condition 26 which limits the annual average nitrogen content of the fuel oil burned in the combustion turbines to not more than 0.05%, by weight.

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Compliance Demonstration

The Permittee shall conduct testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. **[Reference: 40 CFR 75 Appendix E]**

The Permittee shall monitor the water to fuel ratio for NSPS Subpart GG and operating of PEM under Acid Rain Part 75 requirements. **[Reference: 40 CFR §60.334 & 40 CFR 75 Appendix E]**

In addition to NSPS requirements, ~~GenOn~~Dickerson Power shall also report quarterly, to the Maryland Air and Radiation Administration and the Public Service Commission, any one-hour period during which the average water-to-fuel ratio fell below the water-to-fuel ratio used to demonstrate compliance with the NOx emission concentration limits given in condition No. 15.

[Reference: CPCN Order No. 68851 Case No. 8063 Condition 16 & 23]

Note: The Permittee is required to perform NOx testing on the two turbines to satisfy the requirements of the Acid Rain Program. The Permittee currently performs testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. The results of this testing will be used to support the demonstration of compliance with NOx standards and limits of the PSD Approval and NSPS Subpart GG. See quality assurance requirements for the continuous monitoring for NOx for 40 CFR Part 75- Acid Rain Program. **[Reference: Acid Rain Permit, CSAPR, 40 CFR 75 Appendix E]**

3. NSPS Subpart GG

40 CFR §60.332 - Standard for nitrogen oxides.

"No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere a from any stationary gas turbine, any gases which contain nitrogen oxides in excess of:

$$\text{STD} = (0.0075 \times (14.4/Y)) + F$$

Where:

STD= allowable NOx emissions (percent by volume at 15 percent oxygen and on a dry basis)

Y = manufacturer's rated heat rate at manufacturer's rated load (kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour.

F = NOx emission allowance for fuel-bound nitrogen as defined in 40 CFR §60.332(a)(3):

Fuel-Bound Nitrogen (percent by weight)	F (NOx percent by volume)
N < 0.015	0
0.015 < N < 0.1	0.04(N)
0.1 < N < 0.25	0.004 + 0.0067(N - 0.1)
N > 0.25	0.005"

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Compliance Demonstration

The Permittee shall conduct testing in accordance with Appendix E of 40 CFR Part 75 once every 5 years. **[Reference: 40 CFR 75 Appendix E]**

The Permittee shall monitor the water to fuel ratio for NSPS Subpart GG and operating of PEM under Acid Rain Part 75 requirements. **[Reference: 40 CFR §60.334 & 40 CFR 75 Appendix E]**

The Permittee shall maintain records of test results, analyses of nitrogen content of N of fuel, the water to fuel ratio and hours of operation.

[Reference: 40 CFR §60.7(f)]

The Permittee shall report quarterly, to the Department, water-to-fuel ratios, hours of operation (oil and natural gas), fuel N content and total NOx emissions.

[Reference: 40 CFR §60.334]

Acid Rain Provisions

These units are not subject to a NOx limitation under Acid Rain because they are not coal-fired. However, the Permittee is required to comply with the continuous NOx monitoring requirement of 40CFR Part 75 and associated record keeping and reporting requirements. **[Reference: Acid Rain Permit, 40 CFR 75 subpart G]**

Cross-State Air Pollution Rule

See Table IV-3: CSAPR for requirements

D. Control of Carbon Monoxide

PSD Approval

CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits carbon monoxide emissions to 90 pounds per hour per combustion turbine when firing natural gas and 91 pounds per hour when firing distillate fuel oil. Total annual emissions of carbon monoxide from the two turbines are limited to 263 tons per consecutive 12-month period.

Compliance Demonstration

The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they continue to operate as designed.

[Reference: COMAR 26.11.03.06C]

The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. **[Reference: COMAR 26.11.03.06C).**

The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C)**

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Rationale for Periodic Monitoring:

The PSD limitations for carbon monoxide were based on the design of the turbines. If the Permittee performs preventive maintenance that relates to combustion performance, the Permittee will comply with the carbon monoxide limitations.

E. Control of VOC

CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits VOC emissions to 2 pounds per hour per combustion turbine when firing natural gas and 4 pounds per hour when firing distillate fuel oil. Total annual emissions of VOC from the two turbines are limited to 9.2 tons per consecutive 12-month period.

Compliance Demonstration

The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they continue to operate as designed. The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]**

Rationale for Periodic Monitoring:

The limitations for volatile organic compounds were based on the design of the turbines. If the Permittee performs preventive maintenance that relates to combustion performance, the Permittee will comply with the VOC limitations.

F. Control of Particulate Matter

PSD Approval

CPCN Order No. 68851 Case No. 8063 conditions 17 and 18 which limits PM10 and total particulates emissions 21 pounds per hour per combustion turbine when firing natural gas and 27 pounds per hour when firing distillate fuel oil. Total annual emissions of particulates from the two turbines are limited to 60 tons per consecutive 12-month period.

Compliance Demonstration

The Permittee shall perform preventative maintenance to maintain the combustion turbines in a manner such that they operate as designed. The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance. The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]**

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Rationale for Periodic Monitoring:

The PSD limitations for particulate matter were based on the design of the turbines. If the Permittee performs preventive maintenance that relates to combustion performance, the Permittee will comply with the PM limitations.

G. Operating Limitation on Fuel Use

The combustion turbines shall generate electricity using natural gas only. This requirement shall not apply during those times when the delivered cost per million Btu of natural gas exceeds the delivered cost per million Btu of No. 2 oil by 15 percent or during those times when the natural gas supply to the unit is curtailed or interrupted under the delivery contract during maintenance and repair. At such times, the unit shall use No. 2 oil only. Natural gas service curtailments or interruptions shall be verified by a letter each year from the unit's natural gas supplier identifying the dates on which gas service was restricted.

[Reference: CPCN Order #68851 Case No. 8063 Condition 13 and see note under Table IV-2.4 paragraph G -Letter further defining gas curtailment]

Compliance Demonstration

The Permittee shall maintain records to support the basis for burning fuel oil, either those times when the delivered cost per million Btu of natural gas exceeds the delivered cost per million Btu of No. 2 oil by 15 percent or during those times when the natural gas supply to the unit is curtailed or interrupted under the delivery contract during maintenance and repair.

[Reference: CPCN Order #68851 Case No. 8063 & COMAR 26.11.03.06C]

Note: The Department, in a February 2, 2006, letter to GenOn, concurred with GenOn's proposal to clarify natural gas curtailments as follows:

Gas pipeline is out of service for maintenance or repair. Documentation of these events will be obtained through postings on the gas supplier's web site;
Gas supply is interrupted under the delivery contract. Documentation of these events will be obtained through postings on the gas supplier's web site;
One or more of the CT Units is called for by PJM to start or extend operation during periods of time when the pipeline operator is not open for business, typically between 6:00 PM and 10:00 AM daily. ~~GenOn~~Dickerson Power will document PJM dispatch notices during these occasions and will purchase gas upon opening of the commercial gas trading market- typically, 10:00 AM, provided the price of delivered gas is not 15% or more of the price of delivered oil.

The 15% cost differential between natural gas and #2 fuel oil will be determined on the following basis:

Daily publications from the Platts service will be utilized as representative industry benchmarks of natural gas and #2 oil pricing. ~~GenOn~~Dickerson Power will document delivered gas-to-oil cost differential using these benchmarks. The delivered cost

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of #2 oil for ~~GenOn~~Dickerson Power facilities is calculated by taking the Platts ~~Oil~~Q/gram New York Harbor Barge price and adding \$0.0564/gallon in delivery charges. -The delivered cost of natural gas for ~~GenOn~~Dickerson Power facilities is calculated by taking the Platts Gas Daily Transco Zone ~~6-5 South Non-New-York~~ price and adding \$0.10/MMBtu for delivery and \$0.22/MMBtu in Park and Loan fees. The delivered prices for #2 oil and natural gas are calculated on a daily basis to determine if the 15% cost differential is met for the current day unit dispatch.

CTs allowed to run on oil for test purposes after repairs or maintenance of the fuel oil system and its appurtenances for operability assurance.

Natural gas service curtailments or interruptions shall be verified by a letter each year from the unit's natural gas supplier identifying the dates on which gas service was restricted. **[Reference: CPCN Order #68851 Case No. 8063 Condition 13]**

Emissions Unit Number(s): HCT-1: (CAMD ID-GT2) & HCT-2: (CAMD ID-GT3): Combustion Turbines Cont'd

Cross State Air Pollution Rule (CSAPR)

HCT-1 and HCT-2: Two (2) General Electric Frame 7F combustion turbines each with a nominal rated capacity of 167 megawatts located at Station H. These combustion turbines fire primarily natural gas and No. 2 fuel oil as a secondary fuel. The units are equipped with inlet taggers to maintain output at high ambient temperatures and with water injection to control NOx emissions. **[9-0362 & 9-0363]**

Applicable Standards and limits

COMAR 26.11.28.02 - Requirements.

A. This chapter incorporates by reference the U.S. EPA CSAPR and the CSAPR Update, including the definitions, criteria, and procedures therein.

B. Trading Program Requirements.

(1) This chapter incorporates by reference provisions of the CSAPR NOx Annual Trading Program set forth in 40 CFR Part 97, Subpart AAAAA, as published July 1, 2017, and associated reference methods, performance specifications, and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §97.411(b)(2) and (c)(5)(iii), 97.412(b), and 97.421(h) and (i).

(2) This chapter incorporates by reference provisions of the CSAPR NOx Ozone Season Group 2 Trading Program set forth in 40 CFR Part 97, Subpart EEEEE, as published July 1, 2017, and associated reference methods, performance

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specifications and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §§97.811(b)(2) and (c)(S)(iii), 97.812(b), and 97.821(h) and (i). ***(This is superseded by Group 3 Subpart GGGGG published April 30, 2021, effective June 29, 2021). ADD TEXT TO CONFIRM THAT SUBPART GGGGG IS STAYED AND IN THE INTERIM SUBPART EEEEE IS IN EFFECT.***

(3) This chapter incorporates by reference provisions of the CSAPR SO₂ Group 1 Trading Program set forth in 40 CFR Part 97, Subpart CCCCC, as published July 1, 2017, and associated reference methods, performance specifications and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §§97.611(b)(2) and (c)(S)(iii), 97.612(b), and 97.621(h) and (j).

A. 40 CFR Part 97 Subpart AAAAA-CSAPR NO_x Annual Trading Program, CSAPR NO_x Annual Trading Program requirements (40 CFR 97.406)

The Permittee shall comply with the provisions and requirements of §97.401 through §97.435.

Note: §97.406(c) NO_x emissions requirements. For CSAPR NO_x Annual emissions limitation: As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall hold, in the source's compliance account, CSAPR NO_x Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Annual units at the source.

Allowance transfer deadline means, for a control period in a given year, midnight of March 1 (if it is a business day), or midnight of the first business day thereafter (if March 1 is not a business day), immediately after such control period and is the deadline by which a CSAPR NO_x Annual allowance transfer must be submitted for recordation in a CSAPR NO_x Annual source's compliance account in order to be available for use in complying with the source's CSAPR NO_x Annual emissions limitation for such control period in accordance with §§97.406 and 97.424.

B. 40 CFR Part 97 Subpart CCCCC-CSAPR SO₂ Group 1 Trading Program, CSAPR SO₂ Group 1 Trading Program requirements (40 CFR 97.606)

The Permittee shall comply with the provisions and requirements of §97.601 through §97.635.

Note: §97.606(c) SO₂ emissions requirements. For CSAPR SO₂ Group 1 emissions limitation: As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO₂ Group 1 allowances available for deduction for

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such control period under §97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all CSAPR SO₂ Group 1 units at the source.

Allowance transfer deadline means, for a control period in a given year, midnight of March 1 (if it is a business day), or midnight of the first business day thereafter (if March 1 is not a business day), immediately after such control period and is the deadline by which a CSAPR SO₂ Group 1 allowance transfer must be submitted for recordation in a CSAPR SO₂ Group 1 source's compliance account in order to be available for use in complying with the source's CSAPR SO₂ Group 1 emissions limitation for such control period in accordance with §§97.606 and 97.624.

C. 40 CFR Part 97 Subpart GGGGG-CSAPR NO_x Ozone Season Group 3 Trading Program
CSAPR NO_x Ozone Season Group 3 Trading Program Requirements (40 CFR 97.1006)

The Permittee shall comply with the provisions and requirements of §97.1001 through §97.1035.

Note: §97.1006(c) NO_x emissions requirements. For CSAPR NO_x Ozone Season Group 3 emissions limitation: As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 3 source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 3 allowances available for deduction for such control period under §97.1024(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 3 units at the source.

Allowance transfer deadline means, for a control period in a given year, midnight of March 1 (if it is a business day), or midnight of the first business day thereafter (if March 1 is not a business day), immediately after such control period and is the deadline by which a CSAPR NO_x Ozone Season Group 3 allowance transfer must be submitted for recordation in a CSAPR NO_x Ozone Season Group 3 source's compliance account in order to be available for use in complying with the source's CSAPR NO_x Ozone Season Group 3 emissions limitation for such control period in accordance with §§97.1006 and 97.1024.

Compliance Demonstration

The Permittee shall comply with the monitoring, record keeping, and reporting requirements found in §97.406, §97.430, §97.431, §97.432, and §97.433 for the CSAPR NO_x Annual Trading Program; §97.1006, §97.1030, §97.1031, §97.1032, §97.1033 and §97.1034 for the CSAPR NO_x Ozone Season Group 3

Commented [MH6]: In accordance with 40 CFR Part 52.38 for the purposes of Part 97 while a stay of the Group 3 Trading Program is in effect, facilities in Maryland shall be subject to Subpart EEEEE – NO_x Ozone Season Group 2 Trading Program

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Trading Program; and §97.606, §97.630, §97.631, §97.632, and §97.633 and §97.634 for CSAPR SO₂ Group 1 Trading Program.

The Permittee operates continuous emission monitoring system (GEMS) pursuant to 40 CFR Part 75, Subpart B (for SO₂ monitoring) and 40 CFR Part 75, Subpart H (for NO_x monitoring).

COMPLIANCE SCHEDULE

Dickerson Generating Station is currently in compliance with all applicable air quality regulations.

TITLE IV - ACID RAIN

Dickerson Generating Station is subject to the Acid Rain Program requirements. The Phase II Acid Rain Permit renewal will be issued in conjunction with this Part 70 permit.

TITLE VI-OZONE DEPLETING SUBSTANCES

Dickerson Generating Station shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F.

SECTION 112.(f) - ACCIDENTAL RELEASE

Dickerson Generating Station is not subject to the requirements of Section 112(f).

PERMIT SHIELD

The Dickerson Generating Station facility requested that a permit shield be expressly included in the Permittee's Part 70 permit. Permit shields are granted on an emission unit by emission unit basis. If an emission unit is covered by a permit shield, a permit shield statement will follow the emission unit table in Section IV - Plant Specific Conditions of the permit. In this case, a permit shield was granted for each emission unit covered by the permit.

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INSIGNIFICANT ACTIVITIES SEE UPDATED FORM IN APPLICATION

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

- (1) No. 3 Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

The stationary internal combustion engines are subject to the following requirements:

- (A) COMAR 26.11.09.05E(2), Emissions During Idle Mode:
The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.
- (B) COMAR 26.11.09.05E(3), Emissions During Operating Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.
- (C) Exceptions:
 - (i) COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
 - (ii) COMAR 26.11.09.05E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
 - (a) Engines that are idled continuously when not in service: 30 minutes
 - (b) all other engines: 15 minutes.
 - (iii) COMAR 26.11.09.05E(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.
- (D) COMAR 26.11.09.07A(2)(b), which establishes that the Permittee may not burn, sell, or make available for sale

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any distillate fuel with a sulfur content by weight in excess of 0.3 percent.

- (2) Space heaters utilizing direct heat transfer and used solely for comfort heat; **(4 HEATERS)**
- (3) No. 2 Unheated VOC dispensing containers or unheated VOC rinsing containers of 60 gallons (227 liters) capacity or less;

The affected units are subject to COMAR 26.11.19.09D, which requires that the Permittee control emissions of volatile organic compounds (VOC) from cold degreasing operations by meeting the following requirements:

- (a) COMAR 26.11.19.09D(2)(b), which establishes that the Permittee shall not use any VOC degreasing material that exceeds a vapor pressure of 1 mm Hg at 20 °C;
- (b) COMAR 26.11.19.09D(3)(a--d), which requires that the Permittee implement good operating practices designed to minimize spills and evaporation of VOC degreasing material. These practices, which shall be established in writing and displayed such that they are clearly visible to operators, shall include covers (including water covers), lids, or other methods of minimizing evaporative losses, and reducing the time and frequency during which parts are cleaned;
- (c) COMAR 26.11.19.09D(4), which prohibits the use of any halogenated VOE for cold degreasing.

The Permittee shall maintain on site for at least five (5) years, and shall make available to the Department upon request, the following records of operating data:

- (a) Monthly records of the total VOC degreasing materials used; and
- (b) Written descriptions of good operating practices designed to minimize spills and evaporation of VOE degreasing materials.

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- (4) Equipment for drilling, carving, cutting, routing, turning, sawing, planing, spindle sanding, or disc sanding of wood or wood products;
- (5) Brazing, soldering, or welding equipment, and cutting torches related to manufacturing and construction activities that emit HAP metals and not directly related to plant maintenance, upkeep and repair or maintenance shop activities;
- (6) Containers, reservoirs, or tanks used exclusively for:
- (a) Storage of butane, propane, or liquefied petroleum, or natural gas;
 - (b) No. 2 Storage of lubricating oils;
 - (c) No. 6 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;
 - (d) No. 2 The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;
- (7) First aid and emergency medical care provided at the facility, including related activities such as sterilization and medicine preparation used in support of a manufacturing or production process;
- (8) Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks displays, and kerosene fuel use;
- (9) Potable water treatment equipment, not including air stripping equipment;
- (10) Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;

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STATE ONLY ENFORCEABLE REQUIREMENTS

The Permittee is subject to the following State-only enforceable requirements:

Applicable Regulations:

COMAR 26.11.06.08 - Nuisance. "An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be construed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution."

COMAR 26.11.06.09 - Odors. "A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created."

Maryland Department of the Environment
Air and Radiation Administration

CO2 BUDGET TRADING PROGRAM PERMIT

Plant Name: Dickerson Generating Station	
Affected Trading Units: HCT-1 (GT2) and HCT-2 (GT3)	
Owner: Dickerson Power, LLC	ORIS Code 1572
Effective Date From: September 15, 2022, To: October 31, 2026	

Contents:

1. Statement of Basis
2. Table of Affected Units
3. Standard Requirements.
4. The permit application forms submitted for this source.

-
1. Statement of Basis

Statutory and Regulatory Authorities: In accordance with Environmental Article §2-401, Annotated Code of Maryland, the Maryland Department of the Environment, Air and Radiation Administration issues this permit pursuant to COMAR 26.09.01 thru COMAR 26.09.04.

Initial Permit Approval



Christopher Hoagland, Director
Air and Radiation Administration

SEP 15 2022

Date of Issue

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2. Affected Units

Unit ID#	ARAID#	Unit <u>Description</u>
HCT-1 (GT2)	9-0362	148 MWe (gross-summer) - 168 (gross-winter) dual fuel fired, natural gas primary fuel or No.2 oil fired secondary, simple cycle combustion turbine .
HCT-2 (GT3)	9-0363	148 MWe (gross-summer) - 168 (gross-winter) dual fuel fired, natural gas primary fuel or No.2 oil fired secondary, simple cycle combustion turbine

3. Standard Requirements:

A. Selection and Responsibilities of CO2 Budget Source Compliance Account Authorized Account Representatives.

- (1) Each CO2 budget source shall have a CO2 authorized account representative and an alternate CO2 authorized account representative. (COMAR 26.09.01.04B)
- (2) Upon receipt of a complete account certificate of representation:
 - (a) The CO2 authorized account representative and alternate CO2 authorized account representative shall represent and, by representations, actions, inactions, or submissions, legally bind each owner or operator of the CO2 budget source represented and each CO2 budget unit at the source in all matters pertaining to this subtitle, notwithstanding any agreement between the CO2 authorized account representative, alternate CO2 authorized account representative, and the owners or operators; and
 - (b) The owners or operators shall be bound by any decision or order issued to the CO2 authorized account representative or alternate CO2 authorized account representative by the Department or a court regarding the CO2 budget source or unit. (COMAR 26.09.01.04E (1) & (2))
- (3) A CO2 budget permit may not be issued, or a compliance account established for a CO2 budget source until the Department has received a complete account certificate of representation for a CO2 authorized account representative and alternate CO2 authorized account representative of the source and the CO2 budget units at the source. (COMAR 26.09.01.04F)
- (4) Each submission shall be signed and certified by the CO2 authorized account representative or alternate CO2 authorized account representative on behalf of each CO2 budget source and shall include the following statement by the CO2 authorized account representative or alternate CO2

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authorized account representative: "I am authorized to make the submission on behalf of the owners or operators of the CO2 budget sources or CO2 budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in the document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
(COMAR 26.09.01 .04G)

B. Distribution Of CO2 Allowances And Compliance

- (1) Unless otherwise specified in this chapter, a CO2 budget source shall demonstrate compliance with its CO2 budget emissions limitation by holding one CO2 allowance in its compliance account for every ton of CO2 that it emits in a control period, by the allowance transfer deadline for that control period. (COMAR 26.09.02.031(1))
- (2) As of the CO2 allowance transfer deadline for an interim control period, the owners and operators of each CO2 budget source and each CO2 budget unit at the source shall hold, in the source's compliance account for deduction under §I of this regulation, CO2 allowances for no less than 50 percent of the total CO2 emissions for the interim control period from all CO2 budget units at the source. (COMAR 26.09.02.031(2))
- (3) Allowances Available for Compliance Deduction. The following CO2 allowances may be deducted from a compliance account for purposes of complying with a budget source's CO2 budget emissions limitation for a control period or an interim control period:
 - (a) CO2 allowances that are not CO2 offset allowances and are identified as allowances falling within a prior control period, the same control period, or the same interim control period for which the allowances are deducted;
 - (b) CO2 allowances that are held or transferred into the CO2 budget source's compliance account as of the CO2 allowance transfer deadline for that control period or for the interim control period contained within that control period;
 - (c) CO2 offset allowances that are available to be deducted for compliance during a control period or an interim control period where the quantity of allowances is limited to:
 - (i) 3.3 percent of the CO2 budget source's CO2 emissions for that control period; or
 - (ii) 3.3 percent of the CO2 budget source's CO2 emissions for an interim control period multiplied by 0.50.

(COMAR 26.09.02.031(3)(a)-(c))

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(4) Deduction of CO2 allowances:

(a) The Department shall deduct allowances from the CO2 budget source's compliance account until:

(i) The number of CO2 allowances deducted equals 50 percent of the total CO2 emissions for an interim control period; or

(ii) The number of CO2 allowances deducted equals the total CO2 emissions for the control period.

(b) No deduction shall be made for CO2 emissions attributable to the burning of eligible biomass. (COMAR 26.09.02.031(4)(a) & (b))

(5) The identification of available CO2 allowances for compliance deduction by serial number or by default is as follows:

(a) The CO2 authorized account representative for a source's compliance account may request that specific CO2 allowances, identified by serial number for a control period or interim control period, be deducted; and

(b) In the absence of an identification or in the case of a partial identification of available CO2 allowances by serial number, the Department shall deduct CO2 allowances for a control period or interim control period in the following descending order:

(i) For the first control period, all CO2 allowances purchased by direct sale from the Department during years 2009, 2010, and 2011 resulting from the occurrence of the \$7 auction clearing price;

(ii) All CO2 allowances for a control period allocated to a CO2 budget unit from the Long-Term Contract Set-aside Account or the Clean Generation Set-aside Account;

(iii) Subject to the relevant compliance deduction limitations identified in §1(3)(c) of this regulation, any CO2 offset allowances transferred and recorded in the compliance account, in chronological order; and

(iv) Any CO2 allowances, other than those identified in §1(5)(b)(i)- (iii) of this regulation, that are available for deduction in the order they were recorded. (COMAR 26.09.02.031(5)(a)-(b))

(6) Deductions for Excess Emissions.

(a) If a CO2 budget source has excess emissions, the Department shall deduct, from the CO2 budget source's compliance account, CO2 allowances from allocation years that occur after the control period or interim control period in which the excess emissions or excess interim emissions

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occurred, equal to three times the excess emissions.

- (b) If a source's compliance account holds insufficient CO2 allowances to cover the excess emissions, the source shall immediately transfer sufficient allowances into its compliance account.
- (c) CO2 offset allowances may not be deducted to account for the source's excess emissions.
- (d) No CO2 allowance deduction shall relieve the owners or operators of the CO2 budget units at the source of liability for any fine, penalty, assessment or obligation to comply with any other remedy, for the same violation, as ordered under applicable State law.
(COMAR 26.09.02.031(6)(a)-(d))

(7) Guidelines.

- (a) The following guidelines apply in assessing fines, penalties, or other obligations:
 - (i) For purposes of determining the number of days of violation, if a CO2 budget unit has excess emissions for a control period or interim control period, each day in the control period or interim control period, as applicable, constitutes a separate day of violation unless the owners or operators of the unit can demonstrate to the satisfaction of the Department that a lesser number of days should be considered; and
 - (ii) The Department shall consider the amount of excess emissions in determining the severity of the violation.
- (b) Each ton of excess interim emissions is a separate violation.
(COMAR 26.09.02.031(7)(a)-(b))

- (8) If the CO2 budget source's compliance account no longer exists, the CO2 allowances shall be deposited in a general account selected by the owner or operator of the CO2 budget source.
(COMAR 26.09.02.031(8))

(9) Adjustments and Errors.

- (a) The Department may review and conduct independent audits concerning any submission under this subtitle and make appropriate adjustments to the information, if necessary.
- (b) The Department may correct any error in any account and, within 10 business days of making any correction, notify the CO2 authorized account representative for the account.
(COMAR 26.09.02.031(9)(a)-(b))

C. Applicability and Administration

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- (1) The requirements of this permit apply to the owner or operator of a CO2 budget unit. When this permit establishes a requirement such as the submittal of a permit application, a report, a request for allowances or transfer of allowances, or general information, these actions shall be achieved through the authorized account representative on behalf of the owner or operator of the affected CO2 budget source or unit.
(COMAR 26.09.02.02A)
- (2) The requirements of this subtitle are effective on January 1, 2009 or, for new CO2 budget units, on the day on which the unit commences operation.
(COMAR 26.09.02.02C).
- (3) The provisions of this permit do not exempt or otherwise relieve the owners or operators of a CO2 budget source from achieving compliance with any other provision of applicable State and federal laws and regulations.
(COMAR 26.09.02.02D).
- (4) Unless otherwise stated under this subtitle, any time period scheduled to begin:
- (a) On the occurrence of an act or event, begins on the day the act or event occurs; and
- (b) Before the occurrence of an act or event, is computed so that the period ends the day before the act or event occurs.
(COMAR 26.09.02.02E)
- (5) Unless otherwise stated, if the final day of any time period for performing an act required by this subtitle falls on a weekend or on a State or federal holiday, the time period is extended until or to the next business day.
(COMAR 26.09.02.02F)

D. Permit Requirements

- (1) The account representative or designate alternate account representative) of each affected unit at a source, (every fossil fuel fired unit with a nameplate capacity of 25 MW or greater) for that source shall comply with the following:
- (a) The CO2 authorized account representative for the source shall submit an initial CO2 budget permit application by October 1, 2008, or 12 months before the date on which the CO2 budget source, or a new unit at the source, commences operation.
(COMAR 26.09.02.04A(2));
- (b) The CO2 budget permit application shall include the following in a format prescribed by the Department: 1) the identification of the CO2 budget source; 2) plant name and the ORIS (Office of Regulatory Information Systems) or facility code assigned to the source by the Energy Information Administration of the U.S. Department of Energy, if applicable; 3) each CO2 budget unit at the source; and 4) other information required by the Department.
(COMAR 26.09.02.04A(3))

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- (c) A CO2 authorized account representative for the source shall submit a complete application for the renewal of an existing CO2 budget permit on forms provided by the Department not later than 90 days before the expiration of the current CO2 budget permit and in accordance with this regulation.
(COMAR 26.09.02.04E)
- (2) Each CO2 budget source shall apply for and have in effect a CO2 budget permit that contains all applicable requirements.
(COMAR 26.09.02.04A(1)).
- (3) The CO2 budget permit issued by the Department shall be separate but attached to the budget source's Part 70 permit.
(COMAR 26.09.02.04B)
- (4) A CO2 budget permit expires 5 years from the date of issuance by the Department , unless an earlier expiration date is specified in the permit.
(COMAR 26.09.02.04D)

E. Monitoring, Initial Certification and Recertification Requirements

- (1) For each control period in which a CO2 budget source is subject to the CO2 budget emissions limitation, the CO2 authorized account representative of the source shall submit a compliance certification report by the March 1 following the relevant control period. A compliance certification report is not required as part of the compliance obligation during an interim control period.
(COMAR 26.09.02.05A(1))
- (2) The CO2 authorized account representative shall include in the compliance certification report the following:
 - (a) Identification of the source and each CO2 budget unit at the source;
 - (b) At the CO2 authorized account representative's option, the serial numbers of the CO2 allowances that are to be deducted from the source's compliance account for the control period, including the serial numbers of any CO2 offset allowances that are to be deducted subject to applicable limitations; and
 - (c) The compliance certification required by §A(3) of COMAR 26.09.02.05.
(COMAR 26.09.02.05A(2))
- (3) In the compliance certification report, the CO2 authorized account representative shall certify whether the source and each CO2 budget unit at the source for which the compliance certification is submitted was operated during the control period in compliance with the requirements of this subtitle, including:

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- (a) Whether each CO2 budget unit at the source was operated in compliance with the CO2 budget emissions limitation;
- (b) Whether the monitoring plan applicable to each unit at the source: (i) has been maintained to reflect the actual operation and monitoring of the unit; and (ii) contains all information necessary to track CO2 emissions from the unit;
- (c) Whether all CO2 emissions from each unit at the source were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including: (i) whether all conditional data was reported in the quarterly reports; or (ii) if conditional data were reported, whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions have been made;
- (d) Whether the basis for certification or for using an excepted monitoring method or approved alternative monitoring method has changed; and
- (e) If a change is required to be reported, include: (i) the nature and reasons for the change; (ii) when the change occurred; and (iii) how the unit's compliance status was determined after the change, including the method used to determine emissions when a change mandated the need for monitor recertification.
(COMAR 26.09.02.05A (3) (a)-(e))
- (4) The Department, at its discretion, may review and conduct independent audits of any compliance certification or other submission required by this permit.
(COMAR 26.09.02.05B(1))
- (5) The Department may deduct CO2 allowances from, or transfer CO2 allowances to, a compliance account to correct errors in the account or to accurately reflect CO2 emissions, based on the information in the compliance certification or other submissions.
(COMAR 26.09.02.05B(2))
- (6) The owner or operator of a CO2 budget unit shall:
 - (a) Install monitoring systems to monitor CO2 concentration, stack gas flow rate, oxygen concentration, heat input, and fuel flow rate;
 - (b) Install all monitoring systems in accordance with 40 CFR Part 75, except for equation G-1 in Appendix G (see below); and

$$W_{ci} = \frac{MW_{ci} - MW_{ix} - W_{ei} E_i}{2,000 MW_c} \quad \text{G-1}$$

Where:

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Wco2=CO2 emitted from combustion, tons/day.
MWc=Molecular weight of carbon (12.0).
MW02=Molecular weight of oxygen (32.0)
We= Carbon burned, lb/day, determined using fuel sampling and analysis and fuel feed rates.

- (c) Record, report, and verify the data from the monitoring systems.
(COMAR 26.09.02. IOA(l)(a)-(c))

- (7) Install and certify the monitoring system on or before the following dates:

- (a) For a CO2 budget unit that commences commercial operation before July 1, 2008, the owner or operator shall comply on or before January 1, 2009; and
- (b) For a CO2 budget unit that commences commercial operation or constructs a new stack or flue on or after July 1, 2008, the owner or operator shall comply by January 1, 2009, or 90 operating days after the date on which the unit commences commercial operation.
(COMAR 26.09.02. IOA(l)(d))

- (8) The owner or operator of a CO2 budget unit that does not meet the applicable compliance date shall, in accordance with the provisions in 40 CFR §75.3 l(b)(2) or (c)(3), or §2.4 of Appendix D, determine, record, and report maximum potential or, as appropriate, minimum potential for the following:

- (a) CO2 concentration;
- (b) CO2 emissions rate;
- (c) Stack gas moisture content;
- (d) Fuel flow rate; and
- (e) Any other parameter required to determine CO2 mass emissions.
(COMAR 26.09.02. IOA(2)(a)-(e))

- (9) The owner or operator of a CO2 budget unit that does not meet the applicable compliance date for any monitoring system shall determine, record, and report substitute data using the applicable missing data procedures in 40 CFR Part 75 Subpart D, or Appendix D, instead of the maximum potential values or, as appropriate, minimum potential values for a parameter, if the owner or operator demonstrates that there is continuity between the datastreams for that parameter before and after the construction or installation.
(COMAR 26.09.02. IOA(3))

An owner or operator of a CO2 budget unit or a non-CO2 budget unit monitored under 40 CFR §75.72 (b) (2) (ii) may not:

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- (a) Use any alternative monitoring system, alternative reference method, or any other alternative for the required continuous emissions monitoring system without having obtained prior written approval from the Department;
 - (b) Operate the unit so as to discharge, or allow to be discharged, CO2 emissions to the atmosphere without accounting for all emissions in accordance with the applicable provisions of this chapter and 40 CFR Part 75;
 - (c) Disrupt the operation of the CEMS, any portion of the CEMS, or any other approved emissions monitoring method, and thereby avoid monitoring and recording CO2 mass emissions discharged into the atmosphere, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed; or
 - (d) Permanently discontinue use of the approved CEMS unless the owner or operator monitors emissions with a system approved in accordance with this chapter and 40 CFR Part 75.
(COMAR 26.09.02.10A(4)(a)-(d))
- (11) For purposes of this subtitle only, the owner or operator of a CO2 budget unit is exempt from demonstrating compliance with the initial certification requirements of 40 CFR §75.20 for a monitoring system if the following conditions are met:
- (a) The monitoring system has been previously certified in accordance with 40 CFR §75.20; and
 - (b) The applicable quality assurance and quality-control requirements of 40 CFR §75.21 and Appendix B and Appendix D of 40 CFR Part 75 are fully met for the certified monitoring system.
(COMAR 26.09.02.10B(1)(a)-(b))
- (12) The recertification provisions of this regulation apply to a monitoring system exempt from the initial certification requirements of this regulation.
(COMAR 26.09.02.10B(2))
- (13) If the Department has previously approved a petition under 40 CFR §75.72(b)(2)(ii) or 40 CFR §75.16(b)(2)(ii)(B) pursuant to 40 CFR §75.13 for apportioning the CO2 emissions rate measured in a common stack or a petition under 40 CFR §75.66 for an alternative requirement in 40 CFR Part 75, the CO2 authorized account representative shall resubmit the petition to the Department to determine whether the approval applies under this chapter.
(COMAR 26.09.02.10B(3))
- (14) The owner or operator of CO2 budget unit shall comply with the initial certification and recertification procedures for a CEMS and an excepted monitoring system under 40 CFR Part 75, Appendix D.
(COMAR 26.09.02.10B(4))

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(15) The owner or operator of a unit that qualifies to use the low mass emissions excepted monitoring methodology in 40 CFR §75.19 or that qualifies to use an alternative monitoring system under 40 CFR Part 75, Subpart E, shall comply with this regulation.
(COMAR 26.09.02.10 B(5))

(16) When the owner or operator replaces, modifies, or changes a CEMS that the Department determines significantly affects the ability of the system to accurately measure or record CO2 mass emissions or to meet the quality assurance and quality control requirements of 40 CFR §75.21 or Appendix B, the owner or operator shall recertify the monitoring system according to 40 CFR §75.20(b).
(COMAR 26.09.02.IOC(I))

(17) When the owner or operator replaces, modifies, or changes the flue gas handling system or the unit's operation in a manner that the Department determines has significantly changed the flow or concentration profile, the owner or operator shall recertify the CEMS according to 40 CFR §75.20(b).
(COMAR 26.09.02.10C(2))

(18) Approval Process for Initial Certifications and Recertification. The procedures in 40 CFR §75.20(b)(5) and (g)(7) apply for recertification. The CO2 authorized account representative shall submit to the Department:

(a) A written notice of the dates of certification; and

(b) A recertification application for each monitoring system, including the information specified in 40 CFR §75.63.

(COMAR 26.09.02. 10C(3)(a)-(b))

(19) Provisional certification data for a monitor shall be:

(a) Determined in accordance with 40 CFR §75.20(a)(3);

(b) A provisionally certified monitor may be used for a period not to exceed 120 days after receipt of the complete certification application for the monitoring system or component; and

(c) Data measured and recorded by the provisionally certified monitoring system or component is considered valid quality assured data, retroactive to the date and time of provisional certification, if the Department does not issue a notice of disapproval within 120 days of receipt of the complete certification application.

(COMAR 26.09.02.10C(4)(a)-(c))

(20) The Department shall issue a written notice of approval or disapproval of the certification application to the owner or operator within 120 days of receipt of the complete certification application.

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(COMAR 26.09.02.10D(1))

(21) If the Department does not issue the notice within the 120-day period, each monitoring system that meets the applicable performance requirements of 40 CFR Part 75 and is included in the certification application shall be deemed certified for use.
(COMAR 26.09.02.100(2))

(22) If the certification application is complete and shows that each monitoring system meets the applicable performance requirements of 40 CFR Part 75, the Department shall issue a written notice of approval of the certification application within 120 days of receipt.
(COMAR 26.09.02.100(3))

(23) If the certification application is not complete, the Department shall issue a written notice of incompleteness that sets a reasonable date by which the CO2 authorized account representative is to submit the additional information required to complete the certification application.
(COMAR 26.09.02.100(4))

(24) If the CO2 authorized account representative does not comply with the notice of incompleteness by the specified date, the Department may issue a notice of disapproval.
(COMAR 26.09.02.100(5))

(25) If the Department issues a notice of disapproval of a certification application or a notice of disapproval of certification status, the owner or operator shall substitute the following values for each disapproved monitoring system, for each hour of unit operation during the period of invalid data beginning with the date and hour of provisional certification and continuing until the time, date, and hour specified under 40 CFR §75.20(a)(5)(i) or 75.20(g)(7):

(a) For units using or intending to monitor for CO2 mass emissions using heat input or for units using the low mass emissions excepted methodology under 40 CFR §75.19, the maximum potential hourly heat input of the unit; or

(b) For units intending to monitor for CO2 mass emissions using a CO2 pollutant concentration monitor and a flow monitor, the maximum potential concentration of CO2 and the maximum potential flow rate of the unit under 40 CFR Part 75, Appendix A, §2.1.
(COMAR 26.09.02.10 D(6)(a)-(b))

(26) The CO2 authorized account representative shall submit a notification of certification retest dates and a new certification application. The owner or operator shall repeat all certification tests or other requirements that were failed by the monitoring system, as indicated in the Department's notice of disapproval, not later than 30 operating days after the date of issuance of the notice of disapproval.
(COMAR 26.09.02.10D(7))

(27) The owner or operator of a unit qualified to use the low mass emissions excepted methodology under 40 CFR §75.19 shall meet the applicable certification and recertification requirements of 40

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CFR §§75.19(a)(2) and 75.20(h).
(COMAR 26.09.02.10E(1))

- (28) If the owner or operator of this unit elects to certify a fuel flow meter system for heat input determinations, the owner or operator shall also meet the certification and recertification requirements in 40 CFR §75.20(g).
(COMAR 26.09.02.10E(2))

- (29) Certification and Recertification Procedures for Alternative Monitoring Systems. For each unit for which the owner or operator intends to use an alternative monitoring system approved by the Department, 40 CFR Part 75, Subpart E, shall be used to comply with the applicable notification and application procedures of 40 CFR §75.20(f).
(COMAR 26.09.02.10F)

- (30) When any monitoring system fails to meet the quality assurance and quality control requirements or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in 40 CFR Part 75, Subpart D, Appendix D.
(COMAR 26.09.02.100(1))

- (31) Audit Decertification.

- (a) Whenever both an audit of a monitoring system and a review of the initial certification or recertification application reveal that any monitoring system should not have been certified or recertified because it did not meet a particular performance specification or the applicable provisions of 40 CFR Part 75, both at the time of the initial certification or recertification application submission and at the time of the audit, the Department shall issue a notice of disapproval of the certification status of the monitoring system.
- (b) By issuing the notice of disapproval, the certification status of the monitoring system is prospectively revoked.
(COMAR 26.09.02.100(2))

- (32) The data measured and recorded by the monitoring system may not be considered valid quality-assured data from the date of issuance of the notification of the revoked certification status.
(COMAR 26.09.02.100(3))

F. Record Keeping and Reporting Requirements

- (1) The CO2 authorized account representative shall comply with all record-keeping and reporting requirements in COMAR 26.09.02.10 and the applicable record-keeping and reporting requirements under 40 CFR §75.73.
(COMAR 26.09.02.11A)
- (2) The CO2 authorized account representative shall submit quarterly reports as described below in this

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section.

(COMAR 26.09.02.11B(1))

- (3) The report shall contain the CO2 mass emissions data for the CO2 budget unit in an electronic format, unless otherwise required by the Department, for each calendar quarter beginning with:
- (a) The calendar quarter covering January 1, 2009 - March 31, 2009, for a unit that commences commercial operation before July 1, 2008; or
- (b) For a unit commencing commercial operation on or after July 1, 2008, the calendar quarter corresponding to the earlier of the: (i) date of provisional certification; or (ii) applicable deadline for initial certification.
(COMAR 26.09.02.11B(2)(a)-(b))
- (c) If the quarter is the third or fourth quarter of 2008, reporting shall commence in the quarter covering January 1, 2009 through March 31, 2009.
(COMAR 26.09.02.11B(3))
- (4) The CO2 authorized account representative shall submit each quarterly report within 30 days following the end of the calendar quarter covered by the report and in accordance with 40 CFR Part 75, Subpart H, §75.64 and 40 CFR Part 75, Subpart G except for the opacity, NOx and SO2 provisions.
(COMAR 26.09.02.11B(4))
- (5) The CO2 authorized account representative shall submit a compliance certification in support of each quarterly report. The certification shall state that:
- (a) The monitoring data submitted were recorded in accordance with the applicable requirements of this chapter and 40 CFR Part 75, including the quality assurance procedures and specifications;
- (b) For a unit with add-on CO2 emissions controls and for all hours where data are substituted in accordance with 40 CFR §75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance and quality control program under 40 CFR Part 75, Appendix B, and the substitute values do not systematically underestimate CO2 emissions; and
- (c) The CO2 concentration values substituted for missing data under 40 CFR Part 75, Subpart D, do not systematically underestimate CO2 emissions.
(COMAR 26.09.02.11B(5)(a)-(c))
- (6) The CO2 authorized account representative of a CO2 budget unit may submit a petition to the Department under 40 CFR §75.66 requesting approval to apply an alternative to any requirement of this chapter.
(COMAR 26.09.02.11C)

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- (7) The CO2 authorized account representative or alternate CO2 authorized account representative of a CO2 budget unit that burns eligible biomass as a compliance mechanism under this chapter shall report the following information for each calendar quarter:
- (a) For each shipment of solid eligible biomass fuel fired at the CO2 budget unit:
 - (i) Total eligible biomass fuel input, on an as-fired basis, in pounds; and
 - (ii) The moisture content, on an as-fired basis, as a fraction of weight;
 - (b) For each distinct type of gaseous eligible biomass fuel fired at the CO2 budget unit:
 - (i) The density of the biogas, on an as-fired basis, in pounds per standard cubic foot; and
 - (ii) The moisture content of the biogas, as a fraction by total weight;
 - (c) For each distinct type of eligible biomass fuel fired at the CO2 budget unit:
 - (i) The dry basis carbon content of the fuel type, as a fraction by dry weight;
 - (ii) The dry basis higher heating value, in MMBtu per dry pound;
 - (iii) The total dry basis eligible biomass fuel input, in pounds;
 - (iv) The total eligible biomass fuel heat input; and
 - (v) Chemical analysis, including heat value and carbon content;
 - (d) The total amount of CO2 emitted from the CO2 budget unit due to firing eligible biomass fuel, in tons, calculated as in §D(2)(b) of this regulation;
 - (e) The total heat input to the CO2 budget unit due to firing eligible biomass fuel, in MMBtu, calculated below; and
 - (t) Description and documentation of monitoring technology and fuel sampling methodology employed, including sampling frequency.
(COMAR 26.09.02.11 D(1)(a)-(t))
- (8) An owner or operator of a CO2 budget unit shall calculate and submit on a quarterly basis the total dry weight for each distinct type of eligible biomass fired by the CO2 budget unit during the reporting quarter:
- (a) For solid eligible biomass fuel, determined as follows:

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$$F_j = \sum_{i=1}^m (1 - M_i) F_i$$

where:

- (i) F_j = Total eligible biomass dry basis fuel input (pounds) for fuel type j ;
- (ii) F_i = Eligible biomass as fired fuel input (pounds) for fired shipment i ;
- (iii) M_i = Moisture content (fraction) for fired shipment i ;
- (iv) i = fired fuel shipment;
- (v) j = fuel type; and
- (vi) m = number of shipments.

(b) For gaseous eligible biomass fuel, as determined as follows:

$$F_j = D_j V_j (1 - M_j)$$

where:

- (i) F_j = Total eligible biomass dry basis fuel input (pounds) for fuel type j ;
- (ii) D_j = Density of biogas (pounds/scf) for fuel type j ;
- (iii) V_j = Total volume (scf) for fuel type j ;
- (iv) M_j = Moisture content (fraction) for fuel type j ; and
- (v) j = fuel type

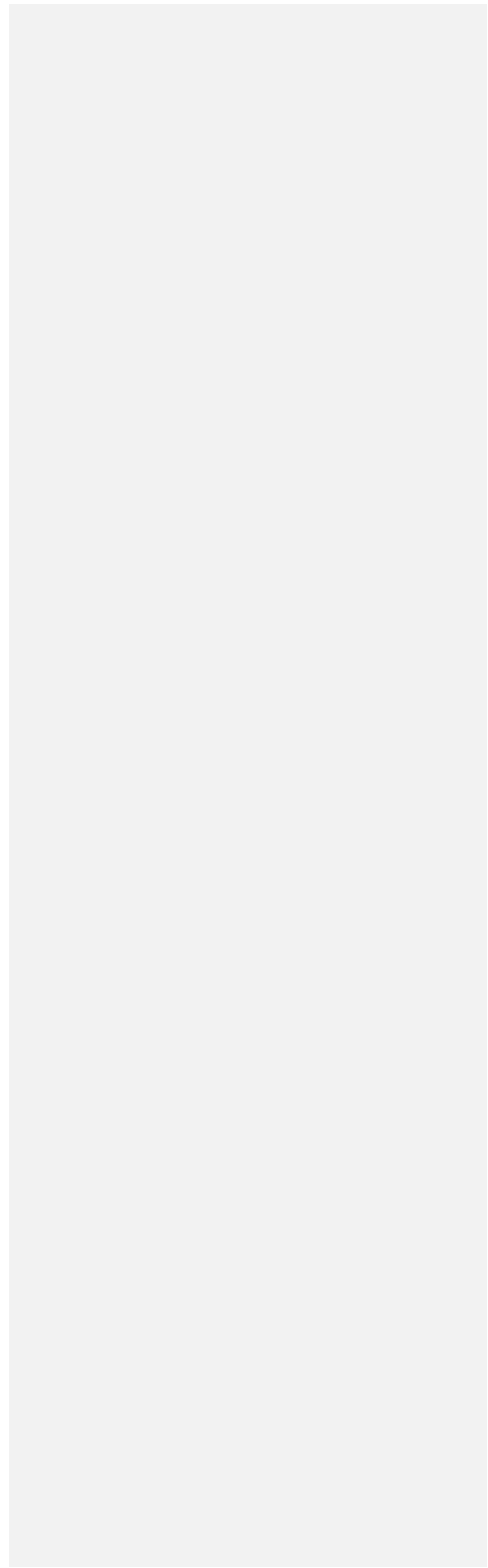
(COMAR 26.09.02.1 ID(2)(a)-(b))

- (9) The amount of CO₂ emissions that is produced from the firing of eligible biomass for any full calendar quarter, during which either no fuel other than eligible biomass is combusted or during which fuels other than eligible biomass are combusted, is determined as follows:

$$CO_2 \text{ tons} = \sum_{j=1}^n F_j C_j O_j \left(\frac{\text{mol CO}_2}{12 \text{ g C}} \right) (0.0005)$$

where:

- (a) CO₂ tons = CO₂ emissions due to firing of eligible biomass for the reporting quarter;
- (b) F_j = Total eligible biomass dry basis fuel input (pounds) for fuel type j , as calculated in §D(2)(a) of this regulation;
- (c) C_j = Carbon fraction (dry basis) for fuel type j ;
- (d) O_j = Oxidation factor for eligible biomass fuel type j , derived for solid fuels based on the ash content of the eligible biomass fired and the carbon content of this ash or for gaseous eligible biomass fuels, a default oxidation factor of 0.995 may be used;



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$$(e) \quad \frac{44 \left(\frac{g}{mol CO_2} \right) J}{12 \left(\frac{g}{mol C} \right)}$$

= The number of tons of carbon dioxide that are created when one ton of carbon is combusted;

(f) 0.0005 = The number of short tons which is equal to one pound;

(g) j = Fuel type; and

(h) n = number of distinct fuel types.
(COMAR 26.09.02.110(3))

Heat input due to firing of eligible biomass for each quarter shall be determined as follows:

(a) For each distinct fuel type:

$$H_j = F_j \times HHV_j$$

where:

(i) H_j = Heat input (MMBtu) for fuel type j;

(ii) F_j = Total eligible biomass dry basis fuel input (pounds) for fuel type j;

(iii) HHV_j = Higher heating value (MMBtu/pound), dry basis, for fuel type j, as determined through chemical analysis;

(iv) j = Fuel type.

(b) For all fuel types:

$$HeatInputMMBtu = \sum_{j=1}^n H_j$$

where:

(i) H_j = Heat input (MMBtu) for fuel type j;

(ii) j = fuel type; and

(iii) n = number of distinct fuel types.

Fuel sampling methods and fuel sampling technology shall be consistent with the New York State Renewable Portfolio Standard Biomass Guidebook, September 2011.
(COMAR 26.09.02.110(4) & 0(5))

(11) A CO2 budget unit shall submit to the Department the megawatt-hour value and a statement certifying that the megawatt-hour of electrical output reported reflects the total actual electrical output for all CO2 budget units at the facility used by the independent system operator (ISO) to determine settlement resources of energy market participants.
(COMAR 26.09.02.11E(1))

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- (12) A CO2 budget unit shall report gross hourly megawatts to the Department in the same electronic data report (EDR) for gross output as submitted to the EPA Administrator, for the operating time in the hour, added for all hours in a year.
(COMAR 26.09.02.1 1E(2))
- (13) A CO2 budget unit shall submit the net electrical output to the Department in accordance with this regulation. A CO2 budget source whose electrical output is not used in the independent system operator (ISO) energy market settlement determinations shall propose a method for quantification of net electrical output.
(COMAR 26.09.02.1 1E(3))
- (14) Report of net Steam Output.
- (a) CO2 budget sources selling steam shall use billing meters to determine net steam output or an alternative method to measure net steam output approved by the Department.
- (b) If data for steam output is not available, the CO2 budget source may report heat input, substituting useful steam output for steam output.
(COMAR 26.09.02.1 1E(4)(a)-(b))
- (15) Each CO2 budget source shall submit an output monitoring plan with a description and diagram that include the following:
- (a) If the CO2 budget unit monitors net electric output, the diagram shall contain all CO2 budget units and all generators served by each CO2 budget unit and the relationship between CO2 budget units and generators;
- (b) If a generator served by a CO2 budget unit is also served by a nonaffected unit, the nonaffected unit and its relationship to each generator shall be indicated on the diagram;
- (c) The diagram shall indicate where the net electric output is measured and include all electrical inputs and outputs to and from the plant;
- (d) If net electric output is determined using a billing meter, the diagram shall show each billing meter used to determine net sales of electricity and show that all electricity measured at the point of sale is generated by the CO2 budget units;
- (e) If the CO2 budget unit monitors net thermal output, the diagram shall indicate all steam or hot water coming into the net steam system, including steam from CO2 budget units and nonaffected units, and all exit points of steam or hot water from the net steam system;
- (f) Each input and output stream shall have an estimated temperature, pressure and phase indicator, and an enthalpy in Btu per pound;

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- (g) The diagram of the net steam system shall identify all useful loads, house loads, parasitic loads, any other steam loads, and all boiler feedwater returns;
- (h) The diagram shall represent all energy losses in the system as either usable or unusable losses;
- (i) The diagram shall indicate all flow meters, temperature or pressure sensors, or other equipment used to calculate gross thermal output; and
- (j) If a sales agreement is used to determine net thermal output, the diagram shall show the monitoring equipment used to determine the sales of steam.
(COMAR 26.09.02.11F(2)(a)-(j))

(16) The description of the output monitoring system shall include:

- (a) A written description of the output system and the equations used to calculate output, and, for net thermal output systems, descriptions and justifications of each useful load;
- (b) A detailed description of all quality assurance and quality control activities that will be performed to maintain the output system; and
- (c) Documentation supporting any output value to be used as a missing data value if there are periods of invalid output data.
- (d) The missing data output value shall be either zero or an output value that is likely to be lower than a measured value and approved as part of the required monitoring plan.
(COMAR 26.09.02.11F(3)(a)-(b))

(17) A certification statement shall be submitted by the CO2 authorized account representative stating that either:

- (a) The output monitoring system consists entirely of billing meters; or
- (b) The output monitoring system meets one of the accuracy requirements for nonbilling meters.
(COMAR 26.09.02.11G(1)(a)-(b))

(18) The billing meter shall record the electric or thermal output. Any electric or thermal output values reported shall be the same as the values used in billing for the output.
(COMAR 26.09.02.11G(2))

(19) For nonbilling meters, either the output monitoring system shall meet an accuracy of within 10 percent of the reference value, or each component monitor for the output system shall meet an accuracy of within 3 percent of the full scale value, whichever is less stringent.
(COMAR 26.09.02.11G(3))

(20) The system approach to accuracy shall include:

- (a) A determination of how the system accuracy of 10 percent is achieved using the individual components in the system; and
- (b) Data loggers and any wattmeters used to calculate the final net electric output data or any flowmeters for steam or condensate, temperature measurement devices, absolute pressure measurement devices, and differential pressure devices used for measuring thermal energy.
(COMAR 26.09.02.11G(4) (a)-(b))

(21) If, upon testing a piece of output measurement equipment, it is determined that the output readings are not accurate to within 3 percent of the full scale value, then the equipment shall be repaired or replaced to meet that requirement.
(COMAR 26.09.02.11G(5))

(22) Data is invalid until the output measurement equipment passes an accuracy test or is replaced with another piece of equipment that passes the accuracy test.
(COMAR 26.09.02.11G(6))

(23) Ongoing quality assurance and quality control activities shall be performed in order to maintain the output system.
(COMAR 26.09.02.11H(1))

(24) If billing meters are used to determine output, quality assurance and quality control activities are not required beyond what are already performed.
(COMAR 26.09.02.11H(2))

(25) Certain types of equipment such as potential transformers, current transformers, nozzle and venture type meters, and the primary element of an orifice plate only require an initial certification of calibration and do not require periodic recalibration unless the equipment is physically changed.

- (a) Pressure and temperature transmitters accompanying an orifice plate will require periodic retesting.
- (b) For other types of equipment, the meter accuracy shall be recalibrated or verified at least once every 2 years, unless a consensus standard allows for less frequent calibrations or accuracy tests.
- (c) For nonbilling meters, either the output monitoring system shall meet an accuracy of within 10 percent of the reference value, or each component monitor for the output system shall meet an accuracy of within 3 percent of the full scale value, whichever is less stringent.
- (d) If, upon testing a piece of output measurement equipment, it is determined that the output readings are not accurate to within 3 percent of the full scale value, then the equipment shall be

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repaired or replaced to meet that requirement.
(COMAR 26.09.02.11 H(3)(a)-(e))

(26) Out-of-Control Periods.

- (a) If, upon testing a piece of output measurement equipment, it is determined that readings are not accurate to the certification value, data is invalid until the equipment passes an accuracy test or is replaced with another piece of equipment that passes an accuracy test.
- (b) All invalid data shall be replaced by either zero or an output value that is a measured value and that is approved as part of the required monitoring process.
(COMAR 26.09.02.11 H(4)(a)-(b))

(27) The CO2 authorized account representative shall submit annual output report.

- (a) Data shall be sent both electronically and in hardcopy by March 1 of each calendar year; and
(COMAR 26.09.02.111 1))

(28) The annual report shall include unit level megawatt hours, all useful steam, and a certification statement from the CO2 authorized account representative stating that he or she is authorized to make this submission on behalf of the owners and operator of the CO2 budget units for which the submission is made. I certify under penalty of perjury that I have personally examined, and am familiar with, the statements and information contained in this document and all its attachments. Based on my inquiry of those individuals responsible for obtaining the information, I certify that the statements and information are, to the best of my knowledge and belief true, accurate, and complete. I am aware of the penalties for submitting false statements and information or omitting required information, including the possibility of fine or imprisonment."
(COMAR 26.09.02.111(2))

G. CO2 Emission Offset Projects

- (i) In order to qualify for the award of CO2 offset allowances, the following all applicable requirements identified in COMAR 26.09.03 and initially effective December 20, 2005:
 - (a) Landfill methane capture and destruction;
 - (b) Reduction in emissions of sulfur hexafluoride (SF6);
 - (c) Sequestration of carbon due to afforestation;

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(d) Reduction or avoidance of CO2 emissions from natural gas, oil, or propane end-use combustion due to end-use energy efficiency; and

(e) Avoided methane emissions from agricultural manure management operations.
(COMAR 26.09.03.02A(l)-(5))

4. Permit Application (See Attachment)

Maryland Department of the Environment
Air and Radiation Administration

PHASE II ACID RAIN PERMIT

Plant Name:	Dickerson Generating Station		
Affected Units:	GT2 (HCT-1) & GT3 (HCT-2)		
Owner:	Dickerson Power, LLC	ORIS Code	1572
Effective Date From:	September 15, 2022	To:	October 31, 2026

Contents:

1. Statement of Basis
2. SO₂ Permit Requirements for Each Affected Unit.
9. Comments, Notes, and Justifications Regarding Permit Decisions; Changes Made to Permit Application Forms During the Review Process; Any Additional Requirements or Conditions.

1. Statement of Basis

Statutory and Regulatory Authorities: In accordance with Environmental Article§2-401, Annotated Code of Maryland and Titles IV and V of the Clean Air Act, the Maryland Department of the Environment, Air and Radiation Administration issues this permit pursuant to COMAR 26.11.02 and COMAR 26.11.03.

Phase II Initial Acid Rain Permit: Dickerson Generating Station

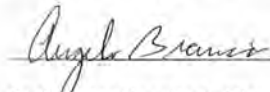
2. SO₂ and NO_x Requirements for Each Affected Unit

SO ₂ Requirements	
SO ₂ Allowances for each unit (GT2 and GT3)	Dickerson Power, LLC will hold allowances for each unit in accordance with 40 CFR 72.9(c)(1)

9. Comments, Notes, and Justifications Regarding Decisions; Changes Made to the Permit Application Forms During the Review Process, Any Additional Requirements or Conditions:

Units GT2 and GT3 burn fuel oil or natural gas. Because these units are not coal fired, the nitrogen oxide emissions reduction regulations of 40 CFR Part 76 are not applicable.

Initial Permit Approval



Date of Issuance: SEP 15 2022

Christopher Hoagland., Director
Air and Radiation Administration