



**AIR AND RADIATION ADMINISTRATION
DRAFT PART 70 OPERATING PERMIT**

DOCKET # 24-031-2716

COMPANY: Dickerson Power, LLC Dickerson Generating Station

LOCATION: 21200 Martinsburg Road
Dickerson, MD 20842

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**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
AIR QUALITY PERMITS PROGRAM**

PART 70/ TITLE V OPERATING PERMIT PROGRAM OVERVIEW

Origin of the Part 70 Operating Permit

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 Permit) that will identify all air emissions sources at a given facility with the applicable federal regulations, and will establish the methodology by which the owner/operator will demonstrate compliance. Required testing, monitoring, record-keeping, and reporting for each emissions source are identified, including regulation citation. This 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.

The Department has had an Air Quality Operating Permit program for many years. The State-Only enforceable permit conditions and applicable regulations listed in Air Quality Permits to Construct issued to a facility will be incorporated into the Part 70 Operating Permit in a separate section. The Department will continue to enforce these state-only requirements. The Part 70 Operating permit will supersede a facility's current State Permit to Operate upon issuance.

Part 70 Operating permits are not for new construction, and do 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 few facilities which were not subject to Maryland's existing State Permit to Operate Program will be subject to the requirements of the Part 70 Program. The Part 70 Program is based on a facility's potential to emit regulated air pollutants. The State Permit to Operate program is based on types of sources specifically listed in the Code of Maryland Regulations (COMAR). For these few facilities which were not required to receive a state Permit to Operate but are subject to a Part 70 permit, there will be the additional burdens of certifying emissions annually and paying an annual emissions-based permit fee.

Part 70 Permit Issuance Process

The Department will undertake a technical review of the Part 70 permit application and will prepare a draft Permit and Fact Sheet. The Fact Sheet will explain the basis and technical analysis used by the Department to develop 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 permit application and the draft permit, the Fact Sheet will contain a discussion of the inconsistencies and the final resolution.

The Part 70 Program provides the public, adjacent states, and EPA the opportunity to review and submit comments on draft Part 70 permits. The public may also request a public hearing on the draft permit. Dockets containing a facility's permit application, supporting documents, draft Permit and Fact Sheet will be available for review both at MDE headquarters located at 1800 Washington Boulevard, Baltimore, MD and a public library near the facility's location. Please note: during Covid restrictions, the dockets will be made available on-line only at:
<https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/title5draftpermits.aspx>

Public Participation Process

The initial step of the Part 70/ Title V public participation process is the publication of a notice of intent to issue a Part 70 Permit and opportunity for concerned citizens to submit written comments and/ or request a public hearing. The Department will publish the notice at least one time in the legal section of a newspaper of general circulation in the area where the facility is located. The Notice will provide the description of the facility for which a Part 70 permit has been drafted, the location of the docket which contains the application and draft permit conditions with supporting documentation, and the requirements for requesting a public hearing. The applicant is responsible for all costs incurred in the publication of this legal notice. The Department will also send notification to adjacent states, local public officials and interested parties, will include the notice in the docket at the library, and/or post the notice to the Department's website.

The public will have 30 days from the date the notice appears in the newspaper to submit written comments to the Department, or to request in writing a public hearing. Adjacent states will have 30 days from the receipt of notification to submit written comments to the Department.

A request for a public hearing must be made in writing within the 30-day comment period. Comments and hearing requests should be sent to the attention of the Air Quality Permits Program Public Participation Coordinator, Ms. Shannon Heafey via email at Shannon.heafey@maryland.gov or mailed to The Air and Radiation Administration, 1800 Washington Boulevard, Suite 720, Baltimore, MD 21230-1720.

Public Hearing

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 submitted 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.

If a public hearing is requested, the Department will make arrangements with the facility to schedule a hearing and will send notification of the hearing to public officials, interested parties, and the EPA. The Department will publish a notice of the scheduled hearing in the legal section of the same newspaper in which the opportunity notification appeared, at least one time and at least 30 days prior to the hearing. The notice will state the date, time, and location of the hearing. During Covid restrictions, public hearings may be held on-line. This public notice will also be posted on the MDE Air Permits Program web page.

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 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 commentors, 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/Title V Operating permit, it has 15 days from receipt of the issued Permit to request a contested case hearing. More information on that can be found in 40CFR70, and COMAR 26.11.03.11.

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AIR AND RADIATION ADMINISTRATION**

**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 the Dickerson, LLC located in Dickerson, MD. The major components of the facility consist of an oil-fired combustion turbine primarily used for black start and peaking service, and two peaking service combustion turbines primarily firing natural gas located on site at Station H.

The applicant is represented by:

Mr. David S. Cramer, Senior Manager, Environmental
GenOn Holdings, Inc.
21200 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 draft permit, application, supporting documentation and fact sheet is available for review. Docket #24-031-2716 is available for public inspection on the Department's website at the following link:

(<https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/title5draftpermits.aspx>)

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 if 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, Title V Coordinator, via email at Shannon.heafey@maryland.gov, or mailed to The Air Quality Permits Program, Air and Radiation Administration, 1800 Washington Boulevard Suite 720, Baltimore, Maryland 21230-1720.

Further information may be obtained by emailing Ms. Heafey or calling (410) 537-4433.

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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.

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	NO_x (TPY)	SO_x (TPY)	PM₁₀/PM_{2.5} (TPY)	CO (TPY)	VOC (TPY)	Total HAP (TPY)
2019	63.24	0.87	4.41	63.14	1.37	0.68
2018	95.56	17.57	4.90	44.09	1.17	0.70
2017	63.45	2.80	5.27	62.13	1.60	0.81
2016	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 NO_x, 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 NO_x 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 November 1, 2019, received the Dickerson Generating Station's Part 70-permit renewal application, which was submitted by GenOn Mid-Atlantic, LLC. An administrative completeness review was conducted, and the application was deemed complete. A completeness determination letter was sent to GenOn Mid-Atlantic, LLC on November 7, 2019, 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.

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 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

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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.

This initial Part 70 permit identifies the applicable regulations of the CSAPR rule as found in 40 CFR Part 97 subparts AAAAAA- NO_x Annual Trading Program, subparts GGGGGG- CSAPR NO_x Ozone Season Group 3 Trading Program, and subpart CCCCCC 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, 2017, 2018 and 2019, 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	2016 tpy CO _{2e}	2017 tpy CO _{2e}	2018 tpy CO _{2e}	2019 tpy CO _{2e}
Carbon dioxide CO ₂	1	219,716.0	68,656.3	92,350.2	72,680.6
Methane CH ₄	25	103.72	33.16	54.46	34.75
Nitrous Oxide N ₂ O	298	126.85	42.99	92.78	43.63
Total GHG CO_{2eq}		219,966.57	68,732.45	92,497.44	72,758.98

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	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 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 NO _x emissions. The exhaust is directed to a single 213-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(s): 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 NO_x 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 YYYYY—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.	NO_x	SO_x	CO	PM₁₀/PM_{2.5}	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 Dc.

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 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]**.

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]**

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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, 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 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.

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 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, NO_x 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.

2019 capacity factors for the CT are as follows:
HCT-1 = 3.70% operated 415 hours; HCT-2 = 4.50% operated 479.3 hours.
Method 9 was conducted on both units on March 7, 2019. 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-Comp Report**

2020 Emissions Certification Report:

Tons/yr.	NO_x	SO_x	CO	PM₁₀/PM_{2.5}	VOC
HCT-1	18.79	0.14	10.09	0.91	0.26
HCT-2	10.11	0.10	6.22	0.08	0.16

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 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)]**

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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. 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

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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:

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

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, will be determined from tests performed by GenOn. GenOn will submit 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 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 & 23]

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:

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

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)	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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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-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]**

Rationale for Periodic Monitoring:

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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 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 will document delivered gas-to-oil cost differential using these benchmarks. The delivered cost

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of #2 oil for GenOn 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 facilities is calculated by taking the Platts *Gas Daily* Transco Zone 6 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).

(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

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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)(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).

**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

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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 (CEMS) 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(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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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 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 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 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.”

DRAFT PERMIT

Larry Hogan
Governor

Ben Grumbles
Secretary

Air and Radiation Administration

1800 Washington Boulevard, Suite 720
Baltimore, MD 21230

Construction Permit

Part 70 Operating Permit

PERMIT NO.:
24-031-2716

DATE ISSUED:
[Date Issued]

PERMIT FEE:
To Be Paid in Accordance with
COMAR 26.11.02.19B

EXPIRATION DATE:
<NO DATA FOUND>

LEGAL OWNER & ADDRESS

Dickerson Power, LLC
21200 Martinsburg Rd
Dickerson, Maryland 20842

Attention: Dave Cramer

SITE

Dickerson Power, LLC
21200 Martinsburg Rd
Dickerson, MD 20842
AI # 169377

SOURCE DESCRIPTION

2020 031-2716 Initial Part 70 PTO for Electric Generating Station

This source is subject to the conditions described on the attached pages.

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Attachment A

Acid Rain Permit

Attachment B

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 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 exhaust through a 213-foot stack.

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.

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

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Emissions Unit Number	MDE - ARA Registration Number	Emissions Unit Name and Description	Date of Installation
		ambient temperatures and with water injection to control NO _x emissions. The exhaust is directed to a single 213-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 NO _x emissions. The exhaust is directed to a single 213-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.

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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 26.11.01.07D(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	<p><u>Emissions Unit Number(s): D CT-1: Combustion Turbine</u></p> <p>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]</p>
1.1	<p><u>Applicable Standards/Limits:</u></p> <p>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</p>

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Table IV – 1	
	<p>(b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty-minute period.”</p> <p>B. <u>Control of Sulfur Oxides</u> COMAR 26.11.09.07A(2) - <u>Sulfur Content Limitations for Fuel.</u> “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.”</p> <p>C. <u>Control of Nitrogen Oxides</u> 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; (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.”</p>
1.2	<p><u>Testing Requirements:</u></p> <p>A. <u>Control of Visible Emissions:</u> See Monitoring Requirements.</p> <p>B. <u>Control of Sulfur Oxides:</u> See Monitoring Requirements.</p> <p>C. <u>Control of Nitrogen Oxides:</u> 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</p>

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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	<p><u>Monitoring Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> 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:</p> <ul style="list-style-type: none"> (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] <p>B. <u>Control of Sulfur Oxides:</u> 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]</p> <p>C. <u>Control of Nitrogen Oxides:</u> 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].</p>
1.4	<p><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)]</p> <p>A. <u>Control of Visible Emissions</u></p>

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	<p>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 26.11.03.06C]</p> <p>B. <u>Control of Sulfur Oxides:</u> 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 26.11.03.06C]</p> <p>C. <u>Control of Nitrogen Oxides</u> 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]</p>
1.5	<p><u>Reporting Requirements:</u></p> <p>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]</p> <p>B. <u>Control of Sulfur Oxides:</u> The Permittee shall report fuel supplier certifications to the Department upon request. [Reference: COMAR 26.11.09.07C]</p> <p>C. <u>Control of Nitrogen Oxides</u> 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].</p>

“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	<p><u>Emissions Unit Number(s): HCT-1 & HCT-2: Combustion Turbines</u></p> <p>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]</p>
2.1	<p><u>Applicable Standards/Limits:</u></p> <p>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.”</p> <p>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.</p> <p>2. NSPS Subpart GG 40 CFR §60.333 which limits sulfur in fuel content to 0.8%.</p>

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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:

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

and

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

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

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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 determined from tests performed by GenOn. GenOn will submit 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.

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:

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

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)	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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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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	<p>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]</p>
2.2	<p><u>Testing Requirements:</u></p> <p>A. <u>Control of Visible Emissions:</u> See Monitoring Requirements.</p> <p>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]</p> <p>C. <u>Control of Nitrogen Oxides:</u></p> <p>1. <u>NO_x RACT</u> 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].</p> <p>2. <u>PSD Limitation</u> 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]</p> <p><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]</p> <p>3. <u>NSPS Subpart GG</u></p>

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	<p>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]</p> <p>D. <u>Control of Carbon Monoxide</u> See Monitoring Requirements.</p> <p>E. <u>Control of VOC</u> See Monitoring Requirements.</p> <p>F. <u>Control of Particulate Matter</u> See Monitoring Requirements.</p> <p>G. <u>Operating Limitation on Fuel Use</u> See Record Keeping Requirements.</p>
2.3	<p><u>Monitoring Requirements:</u></p> <p>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:</p> <ul style="list-style-type: none"> (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. <p>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]</p> <p>B. <u>Control of Sulfur Oxides:</u></p> <ul style="list-style-type: none"> 1. PSD Approval & 2. NSPS Subpart GG: <p>The Permittee shall comply with the fuel flow and heat input monitoring requirements. [Reference: 40 CFR 75 Appendix D]</p>

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	<p>C. <u>Control of Nitrogen Oxides:</u></p> <p>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].</p> <p>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]</p> <p>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]</p> <p>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]</p> <p>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]</p> <p>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]</p> <p>G. <u>Operating Limitation on Fuel Use</u> See Record Keeping Requirements.</p>
2.4	<p><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)]</p> <p>A. <u>Control of Visible Emissions</u></p>

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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]**

B. Control of Sulfur Oxides:

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. Control of Nitrogen Oxides

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 & 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)]

D. Control of Carbon Monoxide

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. Control of VOC

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. Control of Particulate Matter

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 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 will document delivered gas-to-oil cost differential using these benchmarks. The delivered cost of #2 oil for GenOn 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 facilities is calculated by taking the Platts *Gas Daily* Transco Zone 6 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	<p><u>Reporting Requirements:</u></p> <p>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]</p> <p>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]</p> <p>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].</p> <p>2. PSD Limitation In addition to NSPS requirements, GenOn 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 68851 Case 8063 condition 16 & 28]</p> <p>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 NO_x emissions. [Reference: 40 CFR §60.334]</p> <p>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]</p> <p>E. <u>Control of VOC</u> The Permittee shall submit records of maintenance to the Department upon request. [Reference: COMAR 26.11.03.06C]</p>

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	<p>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]</p> <p>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]</p>

“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	<p><u>Emissions Unit Number(s): HCT-1 and HCT-2: Combustion Turbines Cont’d</u></p> <p>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]</p>
3.1	<p><u>Applicable Standards/Limits:</u> COMAR 26.11.28.02 - Requirements.</p> <p>A. This chapter incorporates by reference the U.S. EPA CSAPR and the CSAPR Update, including the definitions, criteria, and procedures therein.</p> <p>B. <u>Trading Program Requirements.</u></p> <p>(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).</p> <p>(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</p>

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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). (***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).

A. 40 CFR Part 97 Subpart AAAAA—CSAPR NO_x Annual Trading Program

§97.406 - 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 §§97.413 through 97.418.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(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) NO_x emissions requirements—(1) CSAPR NO_x Annual emissions limitation. (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) CSAPR NO_x Annual assurance provisions. (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 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 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) Compliance periods. (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) Vintage of CSAPR NO_x Annual allowances held for compliance. (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

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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 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.

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(e) **Additional recordkeeping and reporting requirements.** (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 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) **Liability.** (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) **Effect on other authorities.** 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

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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) **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 §§97.613 through 97.618.

(b) **Emissions monitoring, reporting, and recordkeeping requirements.** (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.

(c) **SO₂ emissions requirements**—(1) **CSAPR SO₂ Group 1 emissions limitation.** (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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	<p>(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.</p> <p>(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—</p> <p>(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</p> <p>(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.</p> <p>(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.</p> <p>(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</p>
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	<p>control period, of the State SO₂ Group 1 trading budget under §97.610(a) and the State's variability limit under §97.610(b).</p> <p>(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.</p> <p>(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,</p> <p>(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</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p>

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	<p>(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.</p> <p>(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:</p> <p>(i) Such authorization shall only be used in accordance with the CSAPR SO₂ Group 1 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 SO₂ Group 1 allowance does not constitute a property right.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(i) The certificate of representation under §97.616 for the designated representative for the source and each CSAPR SO₂ Group 1 unit at the</p>
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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.”

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.

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(b) Emissions monitoring, reporting, and recordkeeping requirements.

(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 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) NO_x emissions requirements -

(1) CSAPR NO_x Ozone Season Group 3 emissions limitation.

(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

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	<p>emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.</p> <p>(2) <i>CSAPR NO_x Ozone Season Group 3 assurance provisions.</i></p> <p>(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 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 -</p> <p>(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</p> <p>(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.</p> <p>(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.</p> <p>(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</p>
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Table IV–3: Cross State Air Pollution Rule (CSAPR)	
	<p>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).</p> <p>(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) during a control period exceeds the common designated representative's assurance level.</p> <p>(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:</p> <p>(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</p> <p>(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.</p> <p><u>(3) Compliance periods.</u></p> <p>(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.</p> <p>(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.</p> <p><u>(4) Vintage of CSAPR NO_x Ozone Season Group 3 allowances held for compliance.</u></p> <p>(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.</p>

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Table IV–3: Cross State Air Pollution Rule (CSAPR)

(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) ***Allowance Management System requirements.*** 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) ***Limited authorization.*** A CSAPR NO_x Ozone Season Group 3 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 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) ***Property right.*** A CSAPR NO_x Ozone Season Group 3 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 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.

(e) ***Additional recordkeeping and reporting requirements.***

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Table IV–3: Cross State Air Pollution Rule (CSAPR)

(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 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) Liability.

(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) Effect on other authorities. 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

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Table IV–3: Cross State Air Pollution Rule (CSAPR)	
	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.
3.2	<p><u>Testing Requirements:</u></p> <p>A, B & C: See Monitoring Requirements.</p>
3.3	<p><u>Monitoring Requirements:</u></p> <p>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.</p> <p>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.</p> <p>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).</p> <p>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.</p>
3.4	<p><u>Record Keeping Requirements:</u></p> <p><u>Note:</u> All records must be maintained for a period of at least 5 years. [Reference: COMAR 26.11.03.06C(5)(g)]</p> <p>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.</p> <p>B. 40 CFR Part 97 Subpart CCCCC - CSAPR SO₂ Group 1 Trading Program</p>

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	<p>The Permittee shall comply with the recordkeeping requirements found in §97.606, §97.630, and §97.634.</p> <p>C. 40 CFR Part 97 Subpart GGGGG—CSAPR NO_x Ozone Season Group 3 Trading Program</p> <p>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.</p>
3.5	<p><u>Reporting Requirements:</u></p> <p>A. 40 CFR Part 97 Subpart AAAAA - CSAPR NO_x Annual Trading Program</p> <p>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.</p> <p>B. 40 CFR Part 97 Subpart CCCCC - CSAPR SO₂ Group 1 Trading Program</p> <p>The Permittee shall comply with the reporting requirements found in §97.606, §97.630, §97.633 and §97.634.</p> <p>C. 40 CFR Part 97 Subpart GGGGG—CSAPR NO_x Ozone Season Group 3 Trading Program</p> <p>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.</p>

“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. 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

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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.”

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: XXX, 2022	To: October 31, 2027		

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

SO₂ 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: _____

Chris Hoagland, Director
Air and Radiation Administration

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: XXX, 2022 To: October 31, 2027	

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

Chris Hoagland, Director
Air and Radiation Administration

Date of Issue

Dickerson Generating Station
Dickerson Power, LLC

CO₂ Budget Trading Program Permit
Initial

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:

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

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:

$$F_j = D_j x V_j x (1 - M_j)$$

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:

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

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 26.09.02.11 I 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 26.09.02.11 I(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;

Dickerson Generating Station Dickerson Power, LLC	CO₂ Budget Trading Program Permit Initial
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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(1)-(5))

4. Permit Application (See Attachment)



Mid-Atlantic, LLC

GenOn Mid-Atlantic, LLC
21200 Martinsburg Rd.
Dickerson, MD 20842

May 22, 2020

Suna Sariscak
Air Quality Permits Program
Air & Radiation Administration
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, MD 21230-1718

RE: Dickerson Generating Station Title V Permit Modification

Dear Ms. Sariscak:

Enclosed please find the Part 70 Operating Permit modification for GenOn's Dickerson Generating Station, MDE Permit #24-031-0019. GenOn Dickerson, LLC is retiring their coal units in August 2020 and requests to modify its current Title V permit accordingly. The table below shows the units that will be retired and those that will continue operating. No new emission units are to be permitted under these permitting actions.

Operational Units	Units to be Retired
Blackstart Combustion Turbine DCT-1	Coal-Fired Steam Unit D-1
Combustion Turbine HCT-1	Coal-Fired Steam Unit D-2
Combustion Turbine HCT-2	Coal-Fired Steam Unit D-3

Please feel free to contact me at 202-359-5361 or david.cramer@genon.com if you have any questions about the enclosed application.

Sincerely,

David S. Cramer
Senior Manager, Environmental
GenOn Holdings, Inc.

AIR AND RADIATION ADMINISTRATION
PART 70 PERMIT APPLICATION FOR A SIGNIFICANT
MODIFICATION

This application form shall be used by facilities that request a significant modification to its Part 70 Operating Permit. A significant permit modification is a Part 70 revision that meets the criteria of COMAR 26.11.03.17B.

Owner and Operator:

Name of Owner or Operator: Dickerson Power, LLC		
Street Address: 21200 Martinsburg Road		
City: Dickerson	State: MD	Zip Code: 20842
Telephone Number: 301-601-6521	Fax Number: 301-601-6556	

Facility Information:

Name of Facility: Dickerson Generating Station		
Street Address: 21200 Martinsburg Road		
City: Dickerson	State: MD	Zip Code: 20842
Plant Manager: David M. Bennett	Telephone Number: 301-601-6522	Fax Number: 301-601-6556
24-Hour Emergency Telephone Number for Air Pollution Matters: 301-601-6565		
Contact for Permit Issues: David Cramer	Title: Senior Manager, Environmental	
Telephone Number: 202-359-5361	E-Mail Address: david.cramer@genon.com	



SECTION 1. CERTIFICATION 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

DM Bennett

5/5/2020

SIGNATURE

DATE

David M. Bennett

PRINTED NAME

Plant Manager

TITLE

Reason for the Request for a Significant Modification:

(check appropriate box(s) below)

- Install new emissions unit(s) that is permitted as a Title I modification.
- Modify an emissions unit in a way that requires the modification to be permitted as a Title I modification.
- 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.
- Install new emissions unit(s) that will add new applicable CAA requirements to the current Part 70 Permit.
- Revise testing, monitoring, record keeping or reporting in a manner that is significant.
- Other: Preparation for future sale of power production assets.

SECTION 2. SIGNIFICANT MODIFICATION SUMMARY

1. Effect on the Facility

Briefly describe the significant modification and its effect on the facility:

There would be no change to the electricity production equipment at the Dickerson facility; however, the two combustion turbines fired by natural gas (i.e., Units HCT-1 and HCT-2) and the oil-fired combustion turbine used for black start (i.e., DCT-1) would be removed from the existing Title V Permit and covered as a separate entity under a new Title V Permit. The purpose of this separation would be to prepare one or both entities for a potential future sale.

2. Projected Facility-Wide Emissions After the Significant Modification

- There will be no change in emissions.
- There will be a net increase in emissions.
- There will be a net decrease in emissions.

Facility-wide emissions corresponding to proposed GenOn Mid-Atlantic LLC emission units for the 2019 reporting year are listed below:

PM₁₀ 4.41 NO_x 63.24 VOC 1.36 SO_x 0.87 CO 53.14 HAPs 0.48



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

<p>1. Emissions Unit No.: DCT-1</p> <p>1a. Date of installation (month/year): March 1967</p>	<p>2. MDE Registration No.:(if applicable) 4-0907</p>												
<p>3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s):</p> <p><u>The unit is a Pratt and Whitney FT4A combustion turbine and utilized for blackstart and peaking service. The combustion turbine is rated at 18 megawatts and fires #2 fuel oil. The emissions are directed to a 25-foot high stack.</u></p>													
<p>4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit:</p> <p>General Reference: <u>N/A</u></p> <p>Continuous Processes: _____ hours/day _____ days/year</p> <p>Batch Processes: _____ hours/batch _____ batches/day</p> <p>_____ days/year</p>													
<p>5. Fuel Consumption:</p> <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. <u>No. 2 Fuel Oil</u></td> <td><u>0.04</u></td> <td><u>41,580 gal</u></td> </tr> <tr> <td>2. _____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>3. _____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>		Type(s) of Fuel	% Sulfur	Annual Usage (specify units)	1. <u>No. 2 Fuel Oil</u>	<u>0.04</u>	<u>41,580 gal</u>	2. _____	_____	_____	3. _____	_____	_____
Type(s) of Fuel	% Sulfur	Annual Usage (specify units)											
1. <u>No. 2 Fuel Oil</u>	<u>0.04</u>	<u>41,580 gal</u>											
2. _____	_____	_____											
3. _____	_____	_____											
<p>6. Emissions in Tons:</p> <p>a. Actual Major: <u>X</u> Potential Major: _____ (note: before control device)</p> <p>b. Actual Emissions: NO_x <u>2.51</u> SO_x <u>0.12</u> VOC <u>1.17E-3</u> PM₁₀ <u>0.03</u> HAPs <u>3.18E-3</u></p>													



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

<p>1. Emissions Unit No.: HCT-1</p> <p>1a. Date of installation (month/year): June 1992</p>	<p>2. MDE Registration No.:(if applicable) 9-0362</p>												
<p>3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s):</p> <p><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 213-foot high stack.</u></p>													
<p>4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit:</p> <p>General Reference: <u>N/A</u></p> <p>Continuous Processes: _____ hours/day _____ days/year</p> <p>Batch Processes: _____ hours/batch _____ batches/day</p> <p>_____ days/year</p>													
<p>5. Fuel Consumption:</p> <table border="1"> <thead> <tr> <th>Type(s) of Fuel</th> <th>% Sulfur</th> <th>Annual Usage (specify units)</th> </tr> </thead> <tbody> <tr> <td>1. <u>No. 2 Fuel Oil</u></td> <td><u>0.04</u></td> <td><u>68,582 gal</u></td> </tr> <tr> <td>2. <u>Pipeline Natural Gas</u></td> <td><u><0.1</u></td> <td><u>558,520 Mcf</u></td> </tr> <tr> <td>3. _____</td> <td></td> <td></td> </tr> </tbody> </table>		Type(s) of Fuel	% Sulfur	Annual Usage (specify units)	1. <u>No. 2 Fuel Oil</u>	<u>0.04</u>	<u>68,582 gal</u>	2. <u>Pipeline Natural Gas</u>	<u><0.1</u>	<u>558,520 Mcf</u>	3. _____		
Type(s) of Fuel	% Sulfur	Annual Usage (specify units)											
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2. <u>Pipeline Natural Gas</u>	<u><0.1</u>	<u>558,520 Mcf</u>											
3. _____													
<p>6. Emissions in Tons:</p> <p>a. Actual Major: _____ Potential Major: <u>X</u> (note: before control device)</p> <p>b. Actual Emissions: NO_x <u>32.30</u> SO_x <u>0.41</u> VOC <u>0.62</u> PM₁₀ <u>1.99</u> HAPs <u>0.22</u></p>													



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

Emissions Unit No.: _____ Facility-Wide _____ 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-Wide 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-Wide **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.

Frequency of submittal of the compliance demonstration: Annual



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

Emissions Unit No.: Facility-Wide 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-Wide 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-Wide _____ 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-Wide _____ 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



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

Emissions Unit No.: Facility-Wide General Reference: COMAR 26.11.01.05-1, COMAR26.11.02.19C, 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 <u>NA</u>	Describe: _____
Testing: Reference <u>NA</u>	Describe: _____
Record Keeping: Reference <u>COMAR 26.11.01.05-1</u>	Describe: <u>Information for calculation of emission statement.</u>
Reporting: Reference <u>COMAR 26.11.02.19C and D</u>	Describe: <u>Emission statement submitted to the Department by April 1 of each year.</u>

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-Wide _____ 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-Wide _____ 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-Wide _____ 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



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

Emissions Unit No.: Facility-Wide 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-Wide _____ 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



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

Emissions Unit No.: Facility-Wide 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



MARYLAND DEPARTMENT OF THE ENVIRONMENT

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

Emissions Unit No.: _____ Facility-Wide _____ 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: _____



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Methods used to demonstrate compliance:	
Monitoring: Reference <u>NA</u>	Describe: _____
Testing: Reference <u>NA</u>	Describe: _____
Record Keeping: Reference <u>40 CFR 82.166</u>	Describe: <u>Certification of technicians and documentation of service records</u>
Reporting: Reference <u>NA</u>	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-Wide _____ 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 _____



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: 40 CFR 72-75

Briefly describe the Emission Standard/Limit or Operational Limitation:

Phase II Acid Rain Program. Permittee shall hold SO₂ allowances for each affected unit. Also 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: CEMS for SO₂, NO_x, CO₂, and opacity

Testing: Reference 40 CFR 75.20 and 21 Describe: Required CEM certification, re-certification, and QA/QC procedures.

Record Keeping: Reference 40 CFR 75.50, 51, and 21 Describe: CEM recordkeeping requirements

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

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.: 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. CEMs and/or PEMS required for monitoring for NO_x and SO₂.

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 97.406, 97.430, 97.432, 97.433, 97.506, 97.530, 97.532, 97.533, 97.606, 97.630, 97.632, and 97.633 Describe: CEMs/PEMS for NO_x and SO₂.

Testing: Reference 40 CFR 97.431, 97.531, 97.631 Describe: Required CEM/PEMS certification and re-certification of QA/QC procedures.

Record Keeping: Reference 40 CFR 97.406, 97.430, 97.434, 97.506, 97.530, 97.534, 97.606, 97.630, and 97.634 Describe: CEM/PEMS recordkeeping requirements.

Reporting: Reference 40 CFR 97.430, 97.433, 97.434, 97.530, 97.533, 97.534, 97.630, 97.633, and 97.634 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 26.11.09.05A

Briefly describe the Emission Standard/Limit or Operational Limitation:

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.

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 26.11.01.04 Describe: VEOs - EPA Method 9.

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

Reporting: Reference COMAR 26.11.03.06 C Describe: Requirements to report excess emissions and deviations.

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 26.11.09.08G

Briefly describe the Emission Standard/Limit or Operational Limitation:

- (1) NOx 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 NOx 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 NOx 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.

NOx 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 Condition 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 Condition 16 and 28 Describe: Quarterly reporting of water to fuel ratios, hours of operation (oil and natural gas), fuel N content and total NOx emissions.

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.: HCT-1 and 2 **General Reference:** COMAR 26.11.09.07A(2), CPCN 8063 Conditions 17, 18, and 27

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, CPCN 8063 Condition 28 Describe: Quarterly reporting requirements.

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.: 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



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:** 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



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

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.: HCT-1 and 2 **General Reference:** CPCN 8063 Condition 13

Briefly describe the Emission Standard/Limit or Operational Limitation:

The CTs 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 of #2 oil by 15% or during those times when the natural gas supply to the unit is curtailed or interrupted under the delivery contract or during maintenance and repair. At such times, the unit shall use #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 date on which gas service was restricted.

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, CPCN 8063 Condition 13 Describe: Shall maintain records to support the basis for burning fuel oil and/or using methods and procedures outlined in 12/21/2005 letter to MDE [Methods and procedures approved in 2/2/2006 MDE letter].

Reporting: Reference COMAR 26.11.03.06C, CPCN 8063 Condition 13 Describe: Natural gas service curtailments or interruptions shall be verified by a letter each year from the unit's natural gas supplier identifying the date on which gas service was restricted.

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.: 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. [see Maryland CO₂ Budget Trading Program Permit Application].

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: CEMs requirements.

Testing: Reference 40 CFR 98, COMAR 26.09.02.10 Describe: Required CEM 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



MARYLAND DEPARTMENT OF THE ENVIRONMENT

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

Emissions Unit No.: DCT-1 and HCT-1 and 2 **General Reference:** COMAR 26.11.09.07A(2)

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



MARYLAND DEPARTMENT OF THE ENVIRONMENT

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

Emissions Unit No.: DCT-1 **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.

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: Requirements for equipment with a capacity factor less than or equal to 15 percent.

Testing: Reference COMAR 26.11.09.08G(1)(b) Describe: Testing requirements for equipment that operates more than 500 hours annually.

Record Keeping: Reference COMAR 26.11.09.08G(1)(c) and 03.06C Describe: Five year recordkeeping requirement.

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 3C. OBSOLETE, EXTRANEEOUS, 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 and HCT-1 and -2 **Permit to Construct No.** NA

Emissions Point No.	Date Permit Issued	Condition No.	Brief Description of Condition and Reason for Exclusion
NA			



**SECTION 3E. CITATION TO AND DESCRIPTION OF APPLICABLE
FEDERALLY ENFORCEABLE REQUIREMENTS FOR AN
ALTERNATE OPERATING SCENARIO**

Scenario No.: NA

Emissions Unit No.: DCT-1 and HCT-1 and -2

General Reference: _____

Briefly describe any applicable Emissions Standard/Limits/Operational Limitations:

None.

Compliance Demonstration

Methods used to demonstrate compliance:

Monitoring: Reference NA Describe: _____

Testing: Reference NA Describe: _____

Record Keeping: Reference NA Describe: _____

Reporting: Reference NA Describe: _____

Frequency of submittal of the compliance demonstration: NA

Check appropriate reports required to be submitted:

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



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. <u>Pollutants Controlled:</u> NO _x	Control Efficiency: NA
5. <u>Capture Efficiency:</u> NA	

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 Power, LLC	County: Montgomery
Premises Number: 150019	
Street Address: 21200 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.	
DCT1 – One 18-MW oil-fired Pratt and Whitney FT4-A combustion turbine.	



CITATION TO AND DESCRIPTION OF APPLICABLE STATE- ONLY ENFORCEABLE REQUIREMENTS

Registration No.: 150019

Emissions Unit No.: Facility-Wide **General Reference:** COMAR 26.11.02.19

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

The owner or operator of a source that is required to obtain and have current effect, a Part 70 permit shall pay an annual fee consisting of a base fee of \$5,000.00 plus an emission-based fee for each ton of regulated emissions.

Methods used to demonstrate compliance:

COMAR 26.11.02.19(C)-Maintain records necessary to support the emission certifications.



CITATION TO AND DESCRIPTION OF APPLICABLE STATE- ONLY ENFORCEABLE REQUIREMENTS

Registration No.: 150019

Emissions Unit No.: Facility-Wide **General Reference:** COMAR 26.11.21.03-.12

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

Regulation .03 (Notification), .06 (Control of emissions from an asbestos project subject to NESHAP), .07 (Control of emissions from any other asbestos project), .08 (Waste disposal), .04 (License requirement), .05 (Worker protection requirements), .09-.12 (Record/License).

Methods used to demonstrate compliance:

Testing COMAR 26.11.21.06A, Control of emissions from an asbestos project subject to NESHAP; Recordkeeping COMAR 26.11.21.09, Maintain records of asbestos projects for period of 6 years; Reporting COMAR 26.11.21.03, Notification requirements as per 40CFR 61.



CITATION TO AND DESCRIPTION OF APPLICABLE STATE- ONLY ENFORCEABLE REQUIREMENTS

Registration No.: 9-0362 and 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 CEMs to monitor CO₂, gas flow, oxygen, heat input, and fuel flow. All monitoring systems should be in accordance with 40 CFR 75.



**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. 3 Stationary internal combustion engines with less than 500 brake horsepower (373 kilowatts) of power output
- (4) 10 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. 2 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;



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

- (12) Equipment for drilling, carving, cutting, routing, turning, sawing, planing, spindle sanding, or disc sanding of wood or wood products;
- (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) Storage of butane, propane, or liquefied petroleum, or natural gas;
 - (d) No. 2 Storage of lubricating oils:
 - (e) No. Unheated storage of VOC with an initial boiling point of 300 °F
 - (f) No. 6 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel,
 - (g) No. Storage of motor vehicle gasoline and having individual tank capacities of 2,000 gallons (7.6 cubic meters) or less;
 - (h) 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;
- (17) Gaseous fuel-fired or electrically heated furnaces for heat treating glass or metals, the use of which does not involve molten materials;



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

- (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, 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) X 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) X 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) X Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;



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

(26) ___ Grain, metal, or mineral extrusion presses;

(27) ___ Breweries with an annual beer production less than 60,000 barrels;

(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. ___ _____

No. ___ _____

No. ___ _____

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. ___ _____

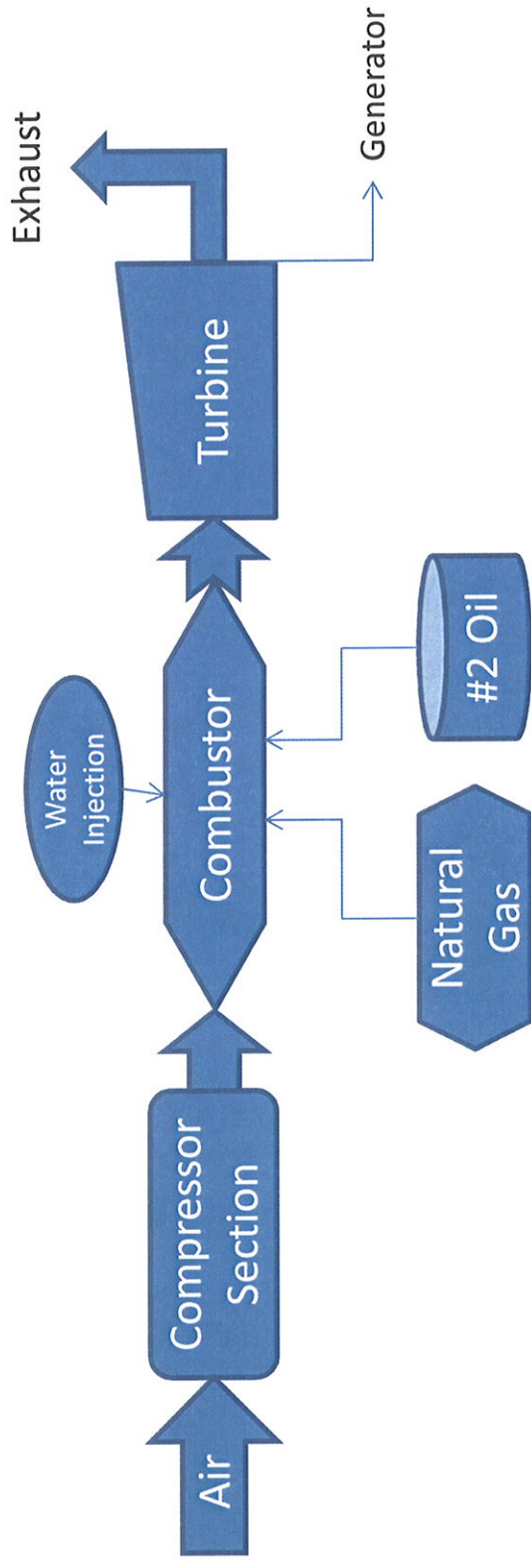
No. ___ _____

No. ___ _____

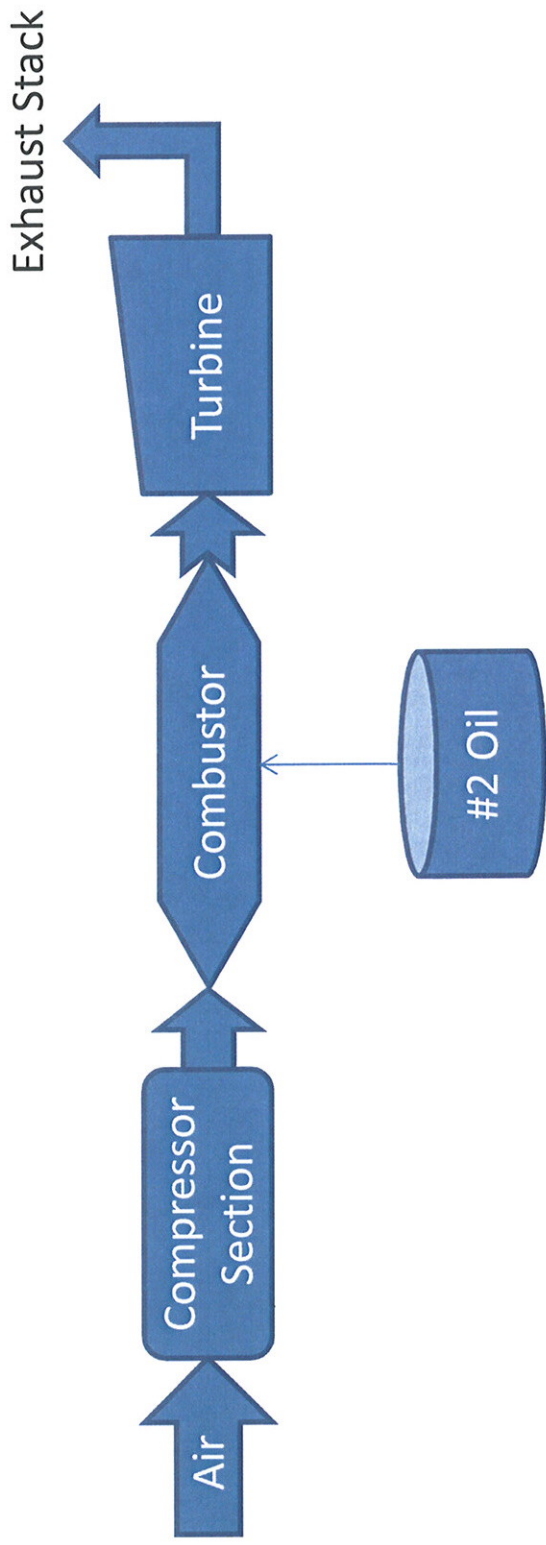


Enclosure 1
Flow Diagrams

GenOn Dickerson Process Flow Diagram Combustion Turbines H-1 & 2 [HCT-1 & 2]



GenOn Dickerson Process Flow Diagram
Combustion Turbines 1 [CT-1]

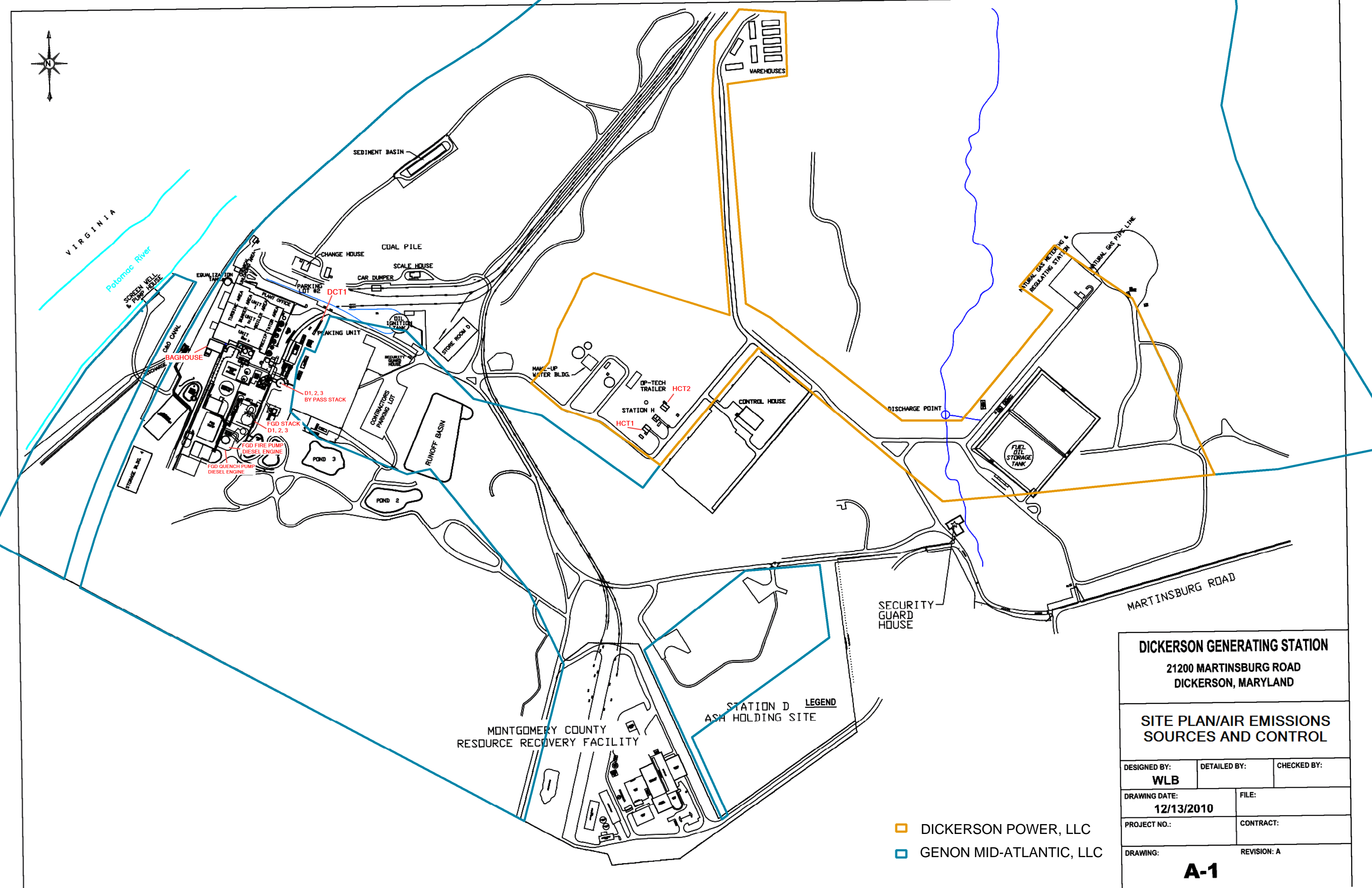


Enclosure 2
Facility Plot Plan



VIRGINIA

Potomac River



DICKERSON GENERATING STATION
21200 MARTINSBURG ROAD
DICKERSON, MARYLAND

**SITE PLAN/AIR EMISSIONS
SOURCES AND CONTROL**

DESIGNED BY: WLB	DETAILED BY:	CHECKED BY:
DRAWING DATE: 12/13/2010	FILE:	
PROJECT NO.:	CONTRACT:	
DRAWING: A-1	REVISION: A	

- ▣ DICKERSON POWER, LLC
- ▣ GENON MID-ATLANTIC, LLC

Enclosure 3
CY2019 Emissions Certification Report

GenOn Mid-Atlantic, LLC
Dickerson Generating Station
21200 Martinsburg Road
Dickerson, MD 20842

March 30, 2020

Mr. Daniel Davis

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

**RE: Dickerson Generating Station
2019 Emission Certification**

Dear Mr. Davis:

GenOn Mid-Atlantic, LLC is pleased to submit the 2019 Emission Certification Report for the Dickerson Generating Station. The Dickerson Generating Station was in compliance with Maryland's Air Toxic Regulations (COMAR 26.11.15) during the past calendar year.

As requested, GenOn Mid-Atlantic, LLC. is submitting an electronic version of this certification. This will be followed by a hard copy version to be sent at a later date. Please do not hesitate to contact me if you have any questions regarding the information contained in this submittal. I can be reached at 202-359-5361. Thank you for your assistance with this information.

Sincerely,



David S. Cramer

GenOn Environmental

Enclosures

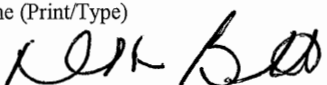
cc: D. Bennett, Plant Manager - Dickerson Generating Station
P. Heimlicher, Environmental Compliance Specialist - Dickerson
Generating Station
A. Nishida, AECOM

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard, Suite 715 - Baltimore Maryland 21230-1720
(410) 537-3000 - 1-800-633-6101 - http://www.mde.state.md.us
Air and Radiation Management Administration
Air Quality Compliance Program
(410) 537-3220

FORM 1

GENERAL FACILITY INFORMATION
EMISSIONS CERTIFICATION REPORT

Report for Calendar Year 2019

A. FACILITY IDENTIFICATION			Do Not Write in This Space
Facility Name GenOn Mid Atlantic, LLC - Dickerson Generating Station			Date Received Regional
Address 21200 Martinsburg Road			Date Received State
City	Dickerson	County Montgomery	AIRS Code
Zip Code	20842		FINDS Code
B. Briefly Describe the Major Function of the Facility			SIC Code
Electric Generation			Facility Number
			Source Latitude and Longitude
C. SEASONAL PRODUCTION (if applicable)			Reviewed Name
Winter (Dec.-Feb.)	Spring (Mar.-May)	Summer (June-Aug.)	Date
Fall (Sept.-Nov.)			
D. Explain Any Increase/Decrease From Previous Calendar Year for Each Registration at this facility.			
Any decrease in emissions was due to decreased fuel usage in 2019			
E. CONTROL DEVICE INFORMATION (for NOx and VOC sources only)			
Control Device	Capture Efficiency	Removal Efficiency	
Units 1, 2 & 3 LNBS, SOFA & SNCR	N/A	N/A	
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.			
David M. Bennett	Plant Manager	3/10/2020	
Name (Print/Type)	Title	Date	
		(301) 601-6522	
Signature		Telephone Number	
3/10/2020			

FORM 2

**CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT**

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: NOx

Calendar Year: 2019

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
15001930001 Unit 1	150	Coal	S	54.48	3,515.06	24.0					31	3304.82	17.3			C1
		Oil	S	*								*				C1
15001930002 Unit 2	150	Coal	S	64.04	3,881.43	24.0					33	3884.71	18.1			C1
		Oil	S	*								*				C1
15001930003 Unit 3	150	Coal	S	58.97	3,468.99	24.0					34	3066.12	16.9			C1
		Oil	S	*								*				C1
15001940907 CT 1	150	Oil	S	2.51	1,253.80	24.0					4	1089.16	2.8			C3
15182290362 HCT 1	150	Oil	S	1.16	46.40	24.0					50	1140.67	7.6			C1
		Gas	S	31.14								*				C1
15182290363 HCT 2	150	Oil	S	0.43	15.09	24.0					57	917.22	7.9			C1
		Gas	S	28.00								*				C1
15001990062 Gasoline Pump	150		F	0.63	3.48	24.0					365	3.47	24.0			C3
				* CEMS data includes all fuels												
Total				241.4	12,184							13,406				

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, 031-01822

Pollutant: VOC

Calendar Year: 2019

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		
15001930001	150	Coal	S	0.52	33.81	24.0						31	35.95	17.3			C3	
Unit 1		Oil	S	0.03	2.12								2.00					C3
15001930002	150	Coal	S	0.61	37.09	24.0						33	39.35	18.1			C3	
Unit 2		Oil	S	0.05	2.93								2.75					C3
15001930003	150	Coal	S	0.56	32.98	24.0						34	34.76	16.9			C3	
Unit 3		Oil	S	0.05	3.01								2.51					C3
15001940907	150	Oil	S	0.00	0.58	24.0						4	0.51	2.8			C3	
CT 1																		
15182290362	150	Oil	S	0.00	0.08	24.0						50	0.00	7.6			C3	
HCT 1		Gas	S	0.62	24.61								22.23					C3
15182290363	150	Oil	S	0.00	0.07	24.0						57	0.00	7.9			C3	
HCT 2		Gas	S	0.74	26.13								24.00					C3
15001990062	150		F	1.18	6.48	24.0						365	6.46	24.0			C3	
Gasoline Pump																		
Total				4.4	169.9								170.5					

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, 031-01822

Pollutant: SO2

Calendar Year: 2019

Equipment Description/ Registration No.	SCC Number	Fuel	S	Actual Emissions		Hrs/day	Operating Schedule(Actual)					TOSD Lbs/dy	Operating Schedule		Emissions Methods	
				Tons/yr	Lbs/day		Start	End	Dys/wk	Wk/yr	Days/yr		Hrs/dy	Start		End
15001930001 Unit 1	150	Coal	S	23.02	1,485.07	24.0					31					C1
		Oil	S	*												C1
15001930002 Unit 2	150	Coal	S	26.49	1,605.44	24.0					33					C1
		Oil	S	*												C1
15001930003 Unit 3	150	Coal	S	24.69	1,452.45	24.0					34					C1
		Oil	S	*												C1
15001940907 CT 1	150	Oil	S	0.12	57.56	24.0					4					C3
15182290362 HCT 1	150	Oil	S	0.22	8.80	24.0					50					C1
		Gas	S	0.19												C1
15182290363 HCT 2	150	Oil	S	0.13	4.56	24.0					57					C1
		Gas	S	0.21												C1
15001990062 Gasoline Pump	150		F	0.03	0.18	24.0					365					C3
				* CEMS data includes all fuels												
Total				75	4,614											

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, 031-01822

Pollutant: CO

Calendar Year: 2019

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	
15001930001	150	Coal	S	4.37	281.77	24.0						31					C3
Unit 1		Oil	S	0.22	13.95												C3
15001930002	150	Coal	S	5.10	309.09	24.0						33					C3
Unit 2		Oil	S	0.32	19.26												C3
15001930003	150	Coal	S	4.67	274.85	24.0						34					C3
Unit 3		Oil	S	0.34	19.83												C3
15001940907	150	Oil	S	0.01	4.70	24.0						4					C3
CT 1			S														
15182290362	150	Oil	S	0.02	0.62	24.0						50					C3
HCT 1		Gas	S	24.02	960.86												C3
15182290363	150	Oil	S	0.02	0.54	24.0						57					C3
HCT 2		Gas	S	29.08	1020.34												C3
15001990062	150		F	24.44	133.93	24.0						365					C3
Gasoline Pump																	
Total				92.6	3039.7												

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, 031-01822

Pollutant: Pb

Calendar Year: 2019

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
15001930001	150	Coal	S	3.67E-03	0.24	24.0										C3
Unit 1		Oil	S	5.34E-05	0.00											C3
15001930002	150	Coal	S	4.28E-03	0.26	24.0										C3
Unit 2		Oil	S	7.84E-05	0.00											C3
15001930003	150	Coal	S	3.92E-03	0.23	24.0										C3
Unit 3		Oil	S	8.32E-05	0.00											C3
15001940907	150	Oil	S	0.00	0.02	24.0										C3
CT 1																
15182290362	150	Oil	S	0.00	0.00	24.0										C3
HCT 1		Gas	S	0.00	0.00											
15182290363	150	Oil	S	0.00	0.00	24.0										C3
HCT 2		Gas	S	0.00	0.00											
15001990062	150	NA	F	-	-	-	-	-	-	-	-					-
Gasoline Pump																
Total				0.0123	0.77							-				

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: 2019

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **PM total**

Equipment Description/ Registration No.	SCC Number	Fuel		Primary		Filterable		Condensable		Operations Days/yr	Emissions Methods
				Tons/yr	Lbs/day	Tons/yr	Lbs/day	Tons/yr	Lbs/day		
15001930001	150	Coal	S	2.02	130.38	0.67	43.46	1.35	86.92	31	C1
Unit 1		Oil	S	0.14	9.21	0.09	5.58	0.06	3.63		
15001930002	150	Coal	S	2.36	143.02	0.79	47.67	1.57	95.35	33	C1
Unit 2		Oil	S	0.21	12.71	0.13	7.70	0.08	5.01		
15001930003	150	Coal	S	2.16	127.18	0.72	42.39	1.44	84.78	34	C1
Unit 3		Oil	S	0.22	13.09	0.13	7.93	0.09	5.15		
15001940907	150	Oil	S	0.03	16.38	0.01	6.13	0.02	10.26	4	C3
CT 1											
15182290362	150	Oil	S	0.05	2.16	0.02	0.81	0.03	1.35	50	C3
H CT 1		Gas	S	1.93	77.34	0.56	22.26	1.38	55.07		
15182290363	150	Oil	S	0.05	1.87	0.02	0.70	0.03	1.17	57	C3
H CT 2		Gas	S	2.34	82.12	0.67	23.64	1.67	58.48		
15001990062	150		F	0.04	0.21	0.04	0.21	-	-	365	C3
Gasoline Pump											
Total				11.6	615.7	3.9	208.5	7.7	407.2		

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: 2019

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **PM2.5**

Equipment Description/ Registration No.	SCC Number	Fuel		Primary		Filterable		Condensable		Operations Days/yr	Emissions Methods
				Tons/yr	Lbs/day	Tons/yr	Lbs/day	Tons/yr	Lbs/day		
15001930001 Unit 1	150	Coal	S	1.62	104.74	0.28	17.82	1.35	86.92	31	C1
		Oil		0.07	4.33	0.01	0.70	0.06	3.63		C1
15001930002 Unit 2	150	Coal	S	1.90	114.89	0.32	19.55	1.57	95.35	33	C1
		Oil		0.10	5.97	0.02	0.96	0.08	5.01		C1
15001930003 Unit 3	150	Coal	S	1.74	102.17	0.30	17.38	1.44	84.78	34	C1
		Oil		0.10	6.15	0.02	0.99	0.09	5.15		C1
15001940907 CT 1	150	Oil	S	0.03	16.38	0.01	6.13	0.02	10.26	4	C3
15182290362 H CT 1	150	Oil	S	0.05	2.16	0.02	0.81	0.03	1.35	50	C3
		Gas		1.93	77.34	0.56	22.26	1.38	55.07		C3
15182290363 H CT 2	150	Oil	S	0.05	1.87	0.02	0.70	0.03	1.17	57	C3
		Gas		2.34	82.12	0.67	23.64	1.67	58.48		C3
15001990062 Gasoline Pump	150		F	0.04	0.21	0.04	0.21	-	-	365	C3
Total				10.0	518.3	2.3	111.1	7.7	407.2		

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: 2019

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **PM10**

Equipment Description/ Registration No.	SCC Number	Fuel		Primary		Filterable		Condensable		Operations Days/yr	Emissions Methods
				Tons/yr	Lbs/day	Tons/yr	Lbs/day	Tons/yr	Lbs/day		
15001930001 Unit 1	150	Coal	S	1.88	121.47	0.54	34.55	1.35	86.92	31	C1
		Oil		0.10	6.42	0.04	2.79	0.06	3.63		C1
15001930002 Unit 2	150	Coal	S	2.20	133.25	0.63	37.90	1.57	95.35	33	C1
		Oil		0.15	8.86	0.06	3.85	0.08	5.01		C1
15001930003 Unit 3	150	Coal	S	2.01	118.49	0.57	33.70	1.44	84.78	34	C1
		Oil		0.16	9.12	0.07	3.97	0.09	5.15		C1
15001940907 CT 1	150	Oil	S	0.03	16.38	0.01	6.13	0.02	10.26	4	C3
15182290362 H CT 1	150	Oil	S	0.05	2.16	0.02	0.81	0.03	1.35	50	C3
		Gas		1.93	77.34	0.56	22.26	1.38	55.07		C3
15182290363 H CT 2	150	Oil	S	0.05	1.87	0.02	0.70	0.03	1.17	57	C3
		Gas		2.34	82.12	0.67	23.64	1.67	58.48		C3
15001990062 Gasoline Pump	150			0.04	0.21	0.04	0.21	-	-	365	C3
Total				10.9	577.7	3.2	170.5	7.7	407.2		

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: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **Acrolein**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	2.53E-03	1.63E-01	1.14E-02	S, B, ESP	NA
15001930002 Unit 2	2.96E-03	1.79E-01	1.17E-02	S, B, ESP	NA
15001930003 Unit 3	2.71E-03	1.59E-01	1.16E-02	S, B, ESP	NA
15001940907 CT 1	-	-	-	NA	NA
15182290362 HCT 1	1.87E-03	7.50E-02	9.04E-03	O	NA
15182290363 HCT 2	2.27E-03	7.96E-02	9.47E-03	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	1.235E-02	6.567E-01	5.316E-02		

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

FORM 4

Toxic Air Pollutants

Calendar Year: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **As**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	3.61E-03	2.33E-01	1.62E-02	S, B, ESP	NA
15001930002 Unit 2	4.22E-03	2.56E-01	1.67E-02	S, B, ESP	NA
15001930003 Unit 3	3.87E-03	2.28E-01	1.65E-02	S, B, ESP	NA
15001940907 CT 1	3.13E-05	1.57E-02	6.05E-03	NA	NA
15182290362 HCT 1	5.17E-05	2.07E-03	2.49E-04	O	NA
15182290363 HCT 2	5.09E-05	1.79E-03	2.12E-04	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	1.18E-02	7.35E-01	5.59E-02		

* 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: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **Be**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	2.01E-04	1.30E-02	9.04E-04	S, B, ESP	NA
15001930002 Unit 2	2.40E-04	1.46E-02	9.52E-04	S, B, ESP	NA
15001930003 Unit 3	2.24E-04	1.32E-02	9.55E-04	S, B, ESP	NA
15001940907 CT 1	8.83E-07	4.42E-04	0.000170368	NA	NA
15182290362 HCT 1	1.46E-06	5.83E-05	7.02E-06	O	NA
15182290363 HCT 2	1.43E-06	5.03E-05	5.98E-06	O	NA
15001990062 Gasoline Pump	-	-	-	-	-
Total	6.69E-04	4.13E-02	2.99E-03		

* 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: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **Cd**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	4.63E-04	2.99E-02	2.08E-03	S, B, ESP	NA
15001930002 Unit 2	5.46E-04	3.31E-02	2.16E-03	S, B, ESP	NA
15001930003 Unit 3	5.04E-04	2.97E-02	2.15E-03	S, B, ESP	NA
15001940907 CT 1	1.37E-05	6.84E-03	2.64E-03	NA	NA
15182290362 HCT 1	2.26E-05	9.02E-04	1.09E-04	O	NA
15182290363 HCT 2	2.22E-05	7.79E-04	9.27E-05	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	1.57E-03	1.01E-01	9.23E-03		

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

FORM 4

Toxic Air Pollutants

Calendar Year: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **Cr VI**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	6.90E-04	4.45E-02	3.10E-03	S, B, ESP	NA
15001930002 Unit 2	8.06E-04	4.88E-02	3.19E-03	S, B, ESP	NA
15001930003 Unit 3	7.38E-04	4.34E-02	3.15E-03	S, B, ESP	NA
15001940907 CT 1	-	-	-	NA	NA
15182290362 HCT 1	-	-	-	O	NA
15182290363 HCT 2	-	-	-	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	2.23E-03	1.37E-01	9.44E-03		

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

FORM 4

Toxic Air Pollutants

Calendar Year: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **Co**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	8.74E-04	5.64E-02	3.92E-03	S, B, ESP	NA
15001930002 Unit 2	1.02E-03	6.18E-02	4.04E-03	S, B, ESP	NA
15001930003 Unit 3	9.35E-04	5.50E-02	3.99E-03	S, B, ESP	NA
15001940907 CT 1	-	-	-	NA	NA
15182290362 HCT 1	-	-	-	O	NA
15182290363 HCT 2	-	-	-	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	2.83E-03	1.73E-01	1.19E-02		

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

FORM 4

Toxic Air Pollutants

Calendar Year: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **Formaldehyde**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	4.74E-03	3.06E-01	2.13E-02	S, B, ESP	NA
15001930002 Unit 2	6.32E-03	3.83E-01	2.50E-02	S, B, ESP	NA
15001930003 Unit 3	6.35E-03	3.74E-01	2.71E-02	S, B, ESP	NA
15001940907 CT 1	7.98E-04	3.99E-01	1.54E-01	NA	NA
15182290362 HCT 1	2.09E-01	8.37E+00	1.01E+00	O	NA
15182290363 HCT 2	2.53E-01	8.88E+00	1.06E+00	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	4.81E-01	1.87E+01	2.29E+00		

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

FORM 4

Toxic Air Pollutants

Calendar Year: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **HCL**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	2.83E-01	1.83E+01	1.27E+00	S, B, ESP	97.3
15001930002 Unit 2	3.30E-01	2.00E+01	1.31E+00	S, B, ESP	97.3
15001930003 Unit 3	3.03E-01	1.78E+01	1.29E+00	S, B, ESP	97.3
15001940907 CT 1	-	-	-	NA	NA
15182290362 HCT 1	-	-	-	O	NA
15182290363 HCT 2	-	-	-	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	9.16E-01	5.61E+01	3.87E+00		

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

FORM 4

Toxic Air Pollutants

Calendar Year: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **HF**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	4.45E-02	2.87E+00	2.00E-01	S, B, ESP	96.6
15001930002 Unit 2	5.20E-02	3.15E+00	2.06E-01	S, B, ESP	96.6
15001930003 Unit 3	4.77E-02	2.80E+00	2.03E-01	S, B, ESP	96.6
15001940907 CT 1	-	-	-	NA	NA
15182290362 HCT 1	-	-	-	O	NA
15182290363 HCT 2	-	-	-	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	1.44E-01	8.83E+00	6.09E-01		

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

FORM 4

Toxic Air Pollutants

Calendar Year: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **Mn**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	4.32E-03	2.78E-01	1.94E-02	S, B, ESP	NA
15001930002 Unit 2	5.05E-03	3.06E-01	2.00E-02	S, B, ESP	NA
15001930003 Unit 3	4.63E-03	2.73E-01	1.98E-02	S, B, ESP	NA
15001940907 CT 1	2.25E-03	1.13E+00	4.34E-01	NA	NA
15182290362 HCT 1	3.71E-03	1.49E-01	1.79E-02	O	NA
15182290363 HCT 2	3.65E-03	1.28E-01	1.52E-02	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	2.36E-02	2.26E+00	5.26E-01		

* 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: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **Methyl Hydrazine**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	1.48E-03	9.58E-02	6.67E-03	S, B, ESP	NA
15001930002 Unit 2	1.73E-03	1.05E-01	6.87E-03	S, B, ESP	NA
15001930003 Unit 3	1.59E-03	9.35E-02	6.77E-03	S, B, ESP	NA
15001940907 CT 1	-	-	-	NA	NA
15182290362 HCT 1	-	-	-	O	NA
15182290363 HCT 2	-	-	-	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	4.81E-03	2.94E-01	2.03E-02		

* 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: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **Ni**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	2.46E-03	1.59E-01	1.11E-02	S, B, ESP	NA
15001930002 Unit 2	2.88E-03	1.75E-01	1.14E-02	S, B, ESP	NA
15001930003 Unit 3	2.64E-03	1.56E-01	1.13E-02	S, B, ESP	NA
15001940907 CT 1	1.31E-05	6.55E-03	2.53E-03	NA	NA
15182290362 HCT 1	2.16E-05	8.65E-04	1.04E-04	O	NA
15182290363 HCT 2	2.13E-05	7.47E-04	8.88E-05	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	8.05E-03	4.97E-01	3.65E-02		

* 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: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **Se**

Equipment Description/ Registration No.	Actual Emissions			Control Device	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
15001930001 Unit 1	1.14E-02	7.38E-01	5.14E-02	S, B, ESP	NA
15001930002 Unit 2	1.34E-02	8.12E-01	5.30E-02	S, B, ESP	NA
15001930003 Unit 3	1.23E-02	7.23E-01	5.24E-02	S, B, ESP	NA
15001940907 CT 1	7.12E-05	3.56E-02	1.37E-02	NA	NA
15182290362 HCT 1	1.18E-04	4.70E-03	5.66E-04	O	NA
15182290363 HCT 2	1.16E-04	4.06E-03	4.83E-04	O	NA
15001990062 Gasoline Pump	-	-	-		
Total	3.743E-02	2.317E+00	1.716E-01		

* 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: 2019

Emission Certification ReportFacility Name: Dickerson Generating StationFacility ID#: 031-00019, 031-01822

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	0.07	4.33	0.30	C3
hydrochloric acid	7647-01-0	S F	0.92	56.10	3.87	C3
hydrogen fluoride	7664-39-3	S F	0.14	8.83	0.61	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			1.13	69.26	4.78	

FORM 6: Greenhouse Gases

Greenhouse Gas Air Pollutants

Calendar Year: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **CO2**

Equipment Description/ Registration No.	Actual Emissions		
	Tons/yr	Lbs/day	Lbs/hr
15001930001 Unit 1	44,017	2,839,809	197,678
15001930002 Unit 2	50,655	3,069,991	200,629
15001930003 Unit 3	47,216	2,777,436	201,354
15001940907 CT 1	465	232,312	89,609
15182290362 HCT 1	37,150	1,485,980	179,051
15182290363 HCT 2	42,502	1,491,288	177,368
15001990062 Gasoline Pump	56	305	13
Total	222,060	11,897,121	1,045,702

FORM 6: Greenhouse Gases

Greenhouse Gas Air Pollutants

Calendar Year: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **CH4**

Equipment Description/ Registration No.	Actual Emissions		
	Tons/yr	Lbs/day	Lbs/hr
15001930001 Unit 1	5	326	23
15001930002 Unit 2	6	358	23
15001930003 Unit 3	5	319	23
15001940907 CT 1	0	9	4
15182290362 HCT 1	1	28	3
15182290363 HCT 2	1	28	3
15001990062 Gasoline Pump	0	0	0
Total	18	1,069	80

FORM 6: Greenhouse Gases

Greenhouse Gas Air Pollutants

Calendar Year: 2019

Emissions Certification Report

Facility Name: Dickerson Generating Station

Facility ID#: 031-00019, 031-01822

Pollutant: **N2O**

Equipment Description/ Registration No.	Actual Emissions		
	Tons/yr	Lbs/day	Lbs/hr
15001930001 Unit 1	1	48	3
15001930002 Unit 2	1	52	3
15001930003 Unit 3	1	47	3
15001940907 CT 1	0	2	1
15182290362 HCT 1	0	3	0
15182290363 HCT 2	0	3	0
15001990062 Gasoline Pump	0	0	0
Total	3	154.133419	12

Supporting Calculations

Input Operational Data

Note: Please complete cells highlighted in yellow. Do not edit.

Facility:	Dickerson
Reporting Year:	2019

Common Stack 1-3 Data - For GHG Reporting

Dry Stack (CSD13)		Scrubber Stack (CSDW13)	
CO2 from CEMS tons/yr	Heat Input CEMS MMBTU/yr	CO2 from CEMS tons/yr	Heat Input CEMS MMBTU/yr
0	0	141,889	1,382,925

Common Stack 1-3 Data

	NOx from CEMS tons	Heat Input CEMS MMBTU	SO2 from CEMS tons	CO2 from CEMS tons	Hg from CEMS lbs
Jan	39.20	284,216	19.20	29,160	
Feb	11.60	67,817	1.80	6,958	
Mar	0	0	0	0	
Apr	0	0	0	0	
May	0	0	0	0	
Jun	0	274.0	0.10	28	
Jul	50.40	445,158	18.60	45,673	
Aug	0	0	0	0	
Sep	14.20	129,955	8.6	13,334	
Oct	9.90	77,962	6.00	7,999	
Nov	43.80	321,640	16.90	33,000	
Dec	8.40	55,902	3.00	5,736	
Total	177.5	1,382,924	74.20	141,888	0.27

Common Stack 1-3 - Calculated MMBTU per Fuel Burned

	Calculated (Fuel Usage/HHV)
Coal MMBTU	1,453,931
#2 Fuel Oil/Used Oil MMBTU	47,758
Total MMBTU	1,501,690

Unit #1 - Monthly Operating Data

	Operating Hours	Operating Days	Coal tons	#2 Oil gallons	Used Oil gallons	Heat Input CEMS MMBTU	Calculated NOx (CEMS) tons
Jan	94.43	7	4,450	24,360		88,211	12.03
Feb	32.67	2	0	3,360		23,027	3.56
Mar	0	0	0	0		0	0
Apr	0	0	0	0		0	0
May	0	0	0	0		0	0
Jun	0	0	0	0		274	0
Jul	172.1	9	5,800	20,160		141,443	15.47
Aug	0	0	0	0		0	0
Sep	35.67	3	1,390	11,340		33,811	4.36
Oct	19.9	2	750.0	10,500		19,128	3.04
Nov	69.96	5	3,990	9,240		106,454	13.44
Dec	20.65	3	1,090	7,560		16,668	2.58
Total	445.3	31	17,470	86,520	0	429,016	54.48

Unit #1 - Calculated MMBTU per Fuel Burned

	Calculated (Fuel Usage/HHV)	CEMS (Prorated)
Coal MMBTU	449,084	413,567
#2 Fuel Oil/Used Oil MMBTU	11,859	10,921
Total MMBTU	460,943	424,488

Unit #2 - Monthly Operating Data

	Operating Hours	Operating Days	Coal tons	#2 Oil gallons	Used Oil gallons	Heat Input CEMS MMBTU	Calculated NOx (CEMS) tons
Jan	121.73	7	5,510	32,340	1,600	110,831	14.14
Feb	27.78	2	100	2,940	0	20,848	4.19
Mar	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0
Jul	180.75	9	6,280	30,660	800	148,067	18.18
Aug	0	0	0	0	0	0	0
Sep	36.22	3	1,590	11,340	600	39,315	5.12
Oct	37.77	4	1,410	24,780	1,100	36,533	3.57
Nov	76.43	5	4,450	9,240	500	116,955	15.80
Dec	24.28	3	1,060	10,500	700	21,163	3.03
Total	505	33	20,400	121,800	5,300	493,712	64.04

Unit #2 - Calculated MMBTU per Fuel Burned

	Calculated (Fuel Usage/HHV)	CEMS (Prorated)
Coal MMBTU	524,402	482,929
#2 Fuel Oil/Used Oil MMBTU	17,421	16,043
Total MMBTU	541,823	498,972

Unit #3 - Monthly Operating Data

	Operating Hours	Operating Days	Coal tons	#2 Oil gallons	Used Oil gallons	Heat Input CEMS MMBTU	Calculated NOx (CEMS) tons
Jan	83.82	7	4,500	47,460		85,173	13.02
Feb	33.58	2	0	2,940		23,942	3.85
Mar	0	0	0	0		0	0
Apr	0	0	0	0		0	0
May	0	0	0	0		0	0
Jun	0	0	0	0		0	0
Jul	178.5	9	5,920	19,740		155,649	16.74
Aug	0	0	0	0		0	0
Sep	57.42	5	2,190	26,460		56,830	4.72
Oct	23.45	3	840	16,800		22302	3.29
Nov	69.81	5	4,050	12,180		98,231	14.55
Dec	22.41	3	1,190	9,240		18072	2.79
Total	469	34	18,690	134,820	0	460,199	58.97

Unit #3 - Calculated MMBTU per Fuel Burned

	Calculated (Fuel Usage/HHV)	CEMS (Prorated)
Coal MMBTU	480,445	442,448
#2 Fuel Oil/Used Oil MMBTU	18,479	17,017
Total MMBTU	498,924	459,465

Combustion Turbines (#1, HCT1, and HCT2) - Monthly Operating Data

	CT1 Hours	CT1 Days	CT1 #2 Oil gallons	HCT1 Hours	HCT1 Days	HCT1 #2 Oil gallons	HCT1 Gas Mcf
Jan	0.00	0	0	0	0	0	0
Feb	0.00	0	1,260	0	0	0	0
Mar	2.60	1	5,460	6.8	1	68,582	0
Apr	0.00	0	0	0	0	0	0
May	0.00	0	0	12.2	2	0	18,340
Jun	0.00	0	0	16.8	3	0	20,530
Jul	2.82	1	5,040	77.8	11	0	97,950
Aug	2.83	1	13,020	64.5	9	0	85,980
Sep	0.00	0	0	56.1	5	0	79,970
Oct	2.12	1	16,800	130.5	10	0	189,790
Nov	0.00	0	0	33.9	5	0	44,790
Dec	0.00	0	0	16.4	4	0	21,170
Total	10	4	41,580	415	50	68,582	558,520

Note: HCT1 = GT2 for GHG reporting

Industrial Engine Data

	Reference
Diesel Used (gallons)	15,917 Dickerson Fuel Data Sheet
Kerosene Used (gallons)	1,238 Dickerson Fuel Data Sheet

Gasoline Pump

	Reference
Gasoline Used (gallons)	6,188 Dickerson Fuel Data Sheet - 2019

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	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
1.16	0	0.22	0	769.20	9,481	6.7	1
0	0	0	0	0	0	0	0
0	0.99	0	0.01	1,157	19,469	7.9	1
0	1.13	0	0.01	1,325	22,302	25.3	4
0	5.69	0	0.03	6,681	112,424	123.7	17
0	4.81	0	0.03	5,653	95,129	74.4	9
0	4.49	0	0.03	5,232	88,043	53.6	5
0	10.33	0	0.06	12,116	203,874	138.1	11
0	2.46	0	0.01	2,875	48,378	38.9	6
0	1.24	0	0.01	1,340	22,544	10.7	3
1.16	31.14	0.22	0.19	37,150	621,644	479.3	57

Note: HCT2 = GT3 for GHG reporting

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
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
67,493	0	0.43	0	0.13	0	447.2	5,512
0	0	0	0	0	0	0	0
0	12,680	0	0.50	0	0	757.5	12,746
0	31,500	0	1.34	0	0.01	1,952	32,849
0	164,780	0	7.10	0	0.05	10,568	177,837
0	103,420	0	4.26	0	0.03	6,353	106,902
0	79,890	0	3.31	0	0.03	5,030	84,638
0	210,680	0	8.45	0	0.07	12,891	216,919
0	58,170	0	2.43	0	0.02	3,599	60,527
0	15,010	0	0.61	0	0	903.5	15,202
67,493	676,130	0.43	28.00	0.13	0.21	42,502	713,132

Unit Data:

	Units	Unit 1	Unit 2	Unit 3	Reference
SNCR Operating Hours	hours/yr	200.0	200.0	242.0	Pt. Plant digital control system
SO ₂ from CEMS	Tons/yr	23.02	26.49	24.69	CEMS
CO ₂ from CEMS	Tons/yr	44,017.04	50,654.85	47,216.42	CEMS
NO _x from CEMS	Tons/yr	54.48	64.04	58.97	CEMS
Hg from CEMS	Tons/yr	0.00004	0.00005	0.00004	CEMS

Fuel Data:

		Value	Reference
Coal Heating Value	Btu/lb	12853	PowerGADS
Coal Ash%	wt%	7.64	PowerGADS
Coal Sulfur %	wt%	2.40	PowerGADS
Coal Moisture Content %	wt%	6.43	PowerGADS
#2 Fuel Oil Heating Value	Btu/gal	137,063	PowerGADS
#2 Fuel Oil Sulfur%	wt%	0.040	PowerGADS
#2 Fuel Oil Density	lb/gal	7.05	AP-42, Appendix A
Used Oil Heating Value	Btu/gal	137,063	Assume same as #2 Fuel Oil
Used Oil Sulfur%	wt%	0.040	Assume same as #2 Fuel Oil
Used Oil Density	lb/gal	7.05	Assume same as #2 Fuel Oil
Natural Gas Heating Value	BTU/scf	1,049.0	PowerGADS
Kerosene Heating Value	Btu/gal	135,000	AP-42, Appendix A
Kerosene Sulfur%	wt%	0.05	AP-42, Appendix A
Kerosene Density	lb/gal	7.05	Assume same as #2 Fuel Oil
Gasoline Heating Value	Btu/gal	130,000	AP-42, Appendix A

Control Efficiency:

	Value	Reference
Unit 1, 2 and 3 HCl Control Efficiency (%)	97.3	EPRI Emission Factor Handbook, February 2015
Unit 1, 2 and 3 HF Control Efficiency (%)	96.6	EPRI Emission Factor Handbook, February 2015

Criteria Pollutants Calculations

ATTACHMENT 1

Station: Dickerson
Reporting Year: 2019

Registration No: 15001930001
Name: Unit 1
Fuel Type: Coal

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	4.37	AP-42
Lead	7439-92-1	3.67E-03	AP-42
NOx	10102-44-0	54.48	CEMS
FPM		0.67	Stack Test
FPM10		0.54	Stack Test
FPM2.5		0.28	Stack Test
CPM		1.35	Stack Test
TPM		2.02	Stack Test
TPM10		1.88	Stack Test
TPM2.5		1.62	Stack Test
SOX	7446-09-5	23.02	CEMS
VOC		0.52	AP-42

Fuel Type: Fuel Oil

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	0.22	AP-42
Lead	7439-92-1	5.34E-05	AP-42
NOx	10102-44-0	See Coal Emissions	CEMS
FPM		0.09	AP-42
FPM10		0.04	AP-42
FPM2.5		0.01	AP-42
CPM		0.06	AP-42
TPM		0.14	AP-42
TPM10		0.10	AP-42
TPM2.5		0.07	AP-42
SOX	7446-09-5	See Coal Emissions	CEMS
VOC		0.03	AP-42

Note: Emissions include No. 2 Fuel Oil and Used Oil emissions per historical AES.

Unit Summary

Pollutant	CAS	Emissions Tons/Year
CO	630-08-0	4.58
Lead	7439-92-1	0.00
NOx	10102-44-0	54.48
FPM		0.76
FPM10		0.58
FPM2.5		0.29
CPM		1.40
TPM		2.16
TPM10		1.98
TPM2.5		1.69
SOX	7446-09-5	23.02
VOC		0.56

ATTACHMENT 2

Station: Dickerson
Reporting Year: 2019

Registration No: 15001930002
Name: Unit 2
Fuel Type: Coal

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	5.10	AP-42
Lead	7439-92-1	4.28E-03	AP-42
NOx	10102-44-0	64.04	CEMS
FPM		0.79	Stack Test
FPM10		0.63	Stack Test
FPM2.5		0.32	Stack Test
CPM		1.57	Stack Test
TPM		2.36	Stack Test
TPM10		2.20	Stack Test
TPM2.5		1.90	Stack Test
SOX	7446-09-5	26.49	CEMS
VOC		0.61	AP-42

Fuel Type: Fuel Oil

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	0.32	AP-42
Lead	7439-92-1	7.84E-05	AP-42
NOx	10102-44-0	See Coal Emissions	CEMS
FPM		0.13	AP-42
FPM10		0.06	AP-42
FPM2.5		0.02	AP-42
CPM		0.08	AP-42
TPM		0.21	AP-42
TPM10		0.15	AP-42
TPM2.5		0.10	AP-42
SOX	7446-09-5	See Coal Emissions	CEMS
VOC		0.05	AP-42

Note: Emissions include No. 2 Fuel Oil and Used Oil emissions per historical AES.

Unit Summary

Pollutant	CAS	Emissions Tons/Year
CO	630-08-0	5.42
Lead	7439-92-1	0.00
NOx	10102-44-0	64.04
FPM		0.91
FPM10		0.69
FPM2.5		0.34
CPM		1.66
TPM		2.57
TPM10		2.34
TPM2.5		1.99
SOX	7446-09-5	26.49
VOC		0.66

ATTACHMENT 3

Station: Dickerson
Reporting Year: 2019

Registration No: 15001930003
Name: Unit 3
Fuel Type: Coal

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	4.67	AP-42
Lead	7439-92-1	3.92E-03	AP-42
NOx	10102-44-0	58.97	CEMS
FPM		0.72	Stack Test
FPM10		0.57	Stack Test
FPM2.5		0.30	Stack Test
CPM		1.44	Stack Test
TPM		2.16	Stack Test
TPM10		2.01	Stack Test
TPM2.5		1.74	Stack Test
SOX	7446-09-5	24.69	CEMS
VOC		0.56	AP-42

Fuel Type: Fuel Oil

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	0.34	AP-42
Lead	7439-92-1	8.32E-05	AP-42
NOx	10102-44-0	See Coal Emissions	CEMS
FPM		0.13	AP-42
FPM10		0.07	AP-42
FPM2.5		0.02	AP-42
CPM		0.09	AP-42
TPM		0.22	AP-42
TPM10		0.16	AP-42
TPM2.5		0.10	AP-42
SOX	7446-09-5	See Coal Emissions	CEMS
VOC		0.05	AP-42

Note: Emissions include No. 2 Fuel Oil and Used Oil emissions per historical AES.

Unit Summary

Pollutant	CAS	Emissions Tons/Year
CO	630-08-0	5.01
Lead	7439-92-1	0.00
NOx	10102-44-0	58.97
FPM		0.86
FPM10		0.64
FPM2.5		0.31
CPM		1.53
TPM		2.38
TPM10		2.17
TPM2.5		1.84
SOX	7446-09-5	24.69
VOC		0.61

ATTACHMENT 4

Station: Dickerson
Reporting Year: 2019
Registration No: 15001940907
Name: CT 1
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	2.51	AP-42
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	0.12	AP-42
VOC		0.00	AP-42

ATTACHMENT 5

Station: Dickerson
Reporting Year: 2019

Registration No: 15182290362
Name: HCT 1
Fuel Type: No. 2 Fuel Oil

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	0.02	AP-42
Lead	7439-92-1	0.00	AP-42
NOx	10102-44-0	1.16	CEMS
FPM		0.02	AP-42
FPM10		0.02	AP-42
FPM2.5		0.02	AP-42
CPM		0.03	AP-42
TPM		0.05	AP-42
TPM10		0.05	AP-42
TPM2.5		0.05	AP-42
SOX	7446-09-5	0.22	CEMS
VOC		0.00	AP-42

Fuel Type: Natural Gas

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	24.02	AP-42
Lead	7439-92-1	0.00	AP-42
NOx	10102-44-0	31.14	CEMS
FPM		0.56	AP-42
FPM10		0.56	AP-42
FPM2.5		0.56	AP-42
CPM		1.38	AP-42
TPM		1.93	AP-42
TPM10		1.93	AP-42
TPM2.5		1.93	AP-42
SOX	7446-09-5	0.19	CEMS
VOC		0.62	AP-42

Unit Summary

Pollutant	CAS	Emissions Tons/Year
CO	630-08-0	24.04
Lead	7439-92-1	0.00
NOx	10102-44-0	32.30
FPM		0.58
FPM10		0.58
FPM2.5		0.58
CPM		1.41
TPM		1.99
TPM10		1.99
TPM2.5		1.99
SOX	7446-09-5	0.41
VOC		0.62

ATTACHMENT 6

Station: Dickerson
Reporting Year: 2019

Registration No: 15182290363
Name: HCT 2
Fuel Type: No. 2 Fuel Oil

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	0.02	AP-42
Lead	7439-92-1	0.00	AP-42
NOx	10102-44-0	0.43	CEMS
FPM		0.02	AP-42
FPM10		0.02	AP-42
FPM2.5		0.02	AP-42
CPM		0.03	AP-42
TPM		0.05	AP-42
TPM10		0.05	AP-42
TPM2.5		0.05	AP-42
SOX	7446-09-5	0.13	CEMS
VOC		0.00	AP-42

Fuel Type: Natural Gas

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	29.08	AP-42
Lead	7439-92-1	0.00	AP-42
NOx	10102-44-0	28.00	CEMS
FPM		0.67	AP-42
FPM10		0.67	AP-42
FPM2.5		0.67	AP-42
CPM		1.67	AP-42
TPM		2.34	AP-42
TPM10		2.34	AP-42
TPM2.5		2.34	AP-42
SOX	7446-09-5	0.21	CEMS
VOC		0.74	AP-42

Unit Summary

Pollutant	CAS	Emissions Tons/Year
CO	630-08-0	29.09
Lead	7439-92-1	0.00
NOx	10102-44-0	28.43
FPM		0.69
FPM10		0.69
FPM2.5		0.69
CPM		1.70
TPM		2.39
TPM10		2.39
TPM2.5		2.39
SOX	7446-09-5	0.34
VOC		0.75

ATTACHMENT 7

Station: Dickerson
Reporting Year: 2019
Registration No: 15001990062
Name: Gasoline Pump
Fuel Type: Gasoline

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO	630-08-0	24.44	AP-42
Lead	7439-92-1	-	-
NOx	10102-44-0	0.63	AP-42
FPM		0.04	AP-42
FPM10		0.04	AP-42
FPM2.5		0.04	AP-42
CPM		-	-
TPM		0.04	AP-42
TPM10		0.04	AP-42
TPM2.5		0.04	AP-42
SOX	7446-09-5	0.03	AP-42
VOC		1.18	AP-42

ATTACHMENT 8

Station: Dickerson
Reporting Year: 2019

Station Summary

Pollutant	CAS	Emissions Tons/Year
CO	630-08-0	92.59
Lead	7439-92-1	0.01
NOx	10102-44-0	241.37
FPM		3.85
FPM10		3.23
FPM2.5		2.26
CPM		7.72
TPM		11.57
TPM10		10.95
TPM2.5		9.98
SOX	7446-09-5	75.10
VOC		4.38

ATTACHMENT 9

Station: Dickerson
Reporting Year: 2019

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	7,190	208	12	35.95	3,304.82
Unit 1	Oil	31,500		17	2.00	
15001930002	Coal	7,870	217	12	39.35	3,884.71
Unit 2	Oil	43,400		18	2.75	
15001930003	Coal	8,110	236	14	34.76	3,066.12
Unit 3	Oil	46,200		17	2.51	
15001940907	Oil	18,060	6	2	0.51	1,089.16
CT 1				3		
15182290362	Oil	0	227	30	0.00	1,140.67
HCT 1	Gas	302,770		8	22.23	
15182290363	Oil	0	285	36	0.00	917.22
HCT 2	Gas	392,270		8	24.00	
15001990062	Gasoline	3093.9	4392	183	6.46	3.47
Gasoline Pump				24		

Notes:

1. Coal usage in tons, fuel oil usage in gallons, and natural gas usage in MCF.
2. The gasoline pump fuel usage was assumed to be 50% of the total fuel usage for April-September.
3. The gasoline pump operational data from April-September considered all hours and days.

GHG and Air Toxics Calculations

ATTACHMENT 1

Station: Dickerson
Reporting Year: 2019
Registration No: 15001930001
Name: Unit 1

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO2	124-38-9	44,017.04	CEMS
N2O	10024-97-2	0.74	40 CFR 98
CH4	74-82-8	5.05	40 CFR 98
1,3 Butadiene	106-99-0	-	-
1,1,1-Trichloroethane	71-55-6	1.75E-04	AP-42
2,3,7,8 -Tetrachlorodibenzo p dioxin	1746-01-6	1.25E-10	AP-42
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	4.45E-10	AP-42
2,4-Dinitrotoluene	121-14-2	2.45E-06	AP-42
2-Chloroacetophenone	532-27-4	6.11E-05	AP-42
Acetaldehyde	75-07-0	4.98E-03	AP-42
Acetophenone	98-86-2	1.31E-04	AP-42
Acrolein	107-02-8	2.53E-03	AP-42
Ammonia	7664-41-7	0.04	Historical AES
Antimony	7440-36-0	1.57E-04	AP-42
Arsenic	7440-38-2	3.61E-03	AP-42
Benzene	1746-01-6	1.14E-02	AP-42
Benzyl chloride	100-44-7	6.11E-03	AP-42
Beryllium	7440-41-7	2.01E-04	AP-42
Biphenyl	92-52-4	1.48E-05	AP-42
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	6.38E-04	AP-42
Bromoform	75-25-2	3.41E-04	AP-42
Cadmium	7440-43-9	4.63E-04	AP-42
Carbon disulfide	75-15-0	1.14E-03	AP-42
Chlorobenzene	108-90-7	1.92E-04	AP-42
Chloroform	67-66-3	5.15E-04	AP-42
Chromium	7440-43-7	2.29E-03	AP-42
Chromium (VI)	18540-29-9	6.90E-04	AP-42
Cobalt	7440-48-4	8.74E-04	AP-42
Cumene	98-82-8	4.63E-05	AP-42
Cyanide	57-12-5	2.18E-02	AP-42
Dichlorobenzene	25321-22-6	-	-
Dimethyl sulfate	77-78-1	4.19E-04	AP-42
Ethyl benzene	100-41-4	8.21E-04	AP-42
Ethyl chloride	75-00-3	3.67E-04	AP-42
Ethylene dibromide	106-93-4	1.05E-05	AP-42
Ethylene dichloride	107-06-2	3.49E-04	AP-42
Ethylene glycol	107-21-1	-	-
Formaldehyde	50-00-0	4.74E-03	AP-42
Hexane	110-54-3	5.85E-04	AP-42
Hydrochloric acid	7647-01-0	0.28	Historical AES, AP-42
Hydrofluoric acid	7664-39-3	0.04	Historical AES, AP-42
Isophorone	78-59-1	5.07E-03	AP-42
Manganese	7439-96-5	4.32E-03	AP-42
Mercury	7439-97-6	4.19E-05	CEMS
Methyl bromide	74-83-9	1.40E-03	AP-42
Methyl chloride	74-87-3	4.63E-03	AP-42
Methyl ethyl ketone	78-93-3	3.41E-03	AP-42
Methyl hydrazine	60-34-4	1.48E-03	AP-42
Methyl methacrylate	80-62-6	1.75E-04	AP-42
Methyl tert butyl ether	1634-04-4	3.06E-04	AP-42
Methylene chloride	75-09-2	2.53E-03	AP-42
Naphthalene	91-20-3	1.28E-04	AP-42
Nickel	7440-02-0	2.46E-03	AP-42
Phenol	108-95-2	1.40E-04	AP-42
Propionaldehyde	123-38-6	3.32E-03	AP-42
Propylene oxide	76-56-9	-	-
Selenium	7782-49-2	1.14E-02	AP-42
Styrene	100-42-5	2.18E-04	AP-42
Tetrachloroethylene	127-18-4	3.76E-04	AP-42
Toluene	108-88-3	2.10E-03	AP-42
Vinyl acetate	108-05-4	6.64E-05	AP-42
Xylenes	1330-20-7	3.23E-04	AP-42
Acenaphthene	83-32-9	4.45E-06	AP-42
Acenaphthylene	203-96-8	2.18E-06	AP-42
Anthracene	120-12-7	1.83E-06	AP-42
Benzo(a)anthracene	56-55-3	6.99E-07	AP-42
Benzo(a)pyrene	50-32-8	3.32E-07	AP-42
Benzo(b)fluoranthene	205-99-2	9.61E-07	AP-42
Benzo(ghi)perylene	191-24-2	2.36E-07	AP-42
Benzo(k)fluoranthene	207-08-9	9.61E-07	AP-42
Chrysene	218-01-9	8.74E-07	AP-42
Dibenzo(a,h)anthracene	53-70-3	-	AP-42
Fluoranthene	206-44-0	6.20E-06	AP-42
Fluorene	86-73-7	7.95E-06	AP-42
Indeno(1,2,3-cd)pyrene	193-39-5	5.33E-07	AP-42
Phenanthrene	85-01-8	2.36E-05	AP-42
Pyrene	129-00-0	2.88E-06	AP-42

ATTACHMENT 2

Station: Dickerson
Reporting Year: 2019
Registration No: 15001930002
Name: Unit 2

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO2	124-38-9	50,654.85	CEMS
N2O	10024-97-2	0.86	40 CFR 98
CH4	74-82-8	5.91	40 CFR 98
1,3 Butadiene	106-99-0	-	-
1,1,1-Trichloroethane	71-55-6	2.04E-04	AP-42
2,3,7,8 -Tetrachlorodibenzo p dioxin	1746-01-6	1.46E-10	AP-42
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	5.20E-10	AP-42
2,4-Dinitrotoluene	121-14-2	2.86E-06	AP-42
2-Chloroacetophenone	532-27-4	7.14E-05	AP-42
Acetaldehyde	75-07-0	5.81E-03	AP-42
Acetophenone	98-86-2	1.53E-04	AP-42
Acrolein	107-02-8	2.96E-03	AP-42
Ammonia	7664-41-7	0.05	Historical AES
Antimony	7440-36-0	1.84E-04	AP-42
Arsenic	7440-38-2	4.22E-03	AP-42
Benzene	1746-01-6	1.33E-02	AP-42
Benzyl chloride	100-44-7	7.14E-03	AP-42
Beryllium	7440-41-7	2.40E-04	AP-42
Biphenyl	92-52-4	1.73E-05	AP-42
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	7.45E-04	AP-42
Bromoform	75-25-2	3.98E-04	AP-42
Cadmium	7440-43-9	5.46E-04	AP-42
Carbon disulfide	75-15-0	1.33E-03	AP-42
Chlorobenzene	108-90-7	2.24E-04	AP-42
Chloroform	67-66-3	6.02E-04	AP-42
Chromium	7440-43-7	2.68E-03	AP-42
Chromium (VI)	18540-29-9	8.06E-04	AP-42
Cobalt	7440-48-4	1.02E-03	AP-42
Cumene	98-82-8	5.41E-05	AP-42
Cyanide	57-12-5	2.55E-02	AP-42
Dichlorobenzene	25321-22-6	-	-
Dimethyl sulfate	77-78-1	4.90E-04	AP-42
Ethyl benzene	100-41-4	9.59E-04	AP-42
Ethyl chloride	75-00-3	4.28E-04	AP-42
Ethylene dibromide	106-93-4	1.22E-05	AP-42
Ethylene dichloride	107-06-2	4.08E-04	AP-42
Ethylene glycol	107-21-1	-	-
Formaldehyde	50-00-0	6.32E-03	AP-42
Hexane	110-54-3	6.83E-04	AP-42
Hydrochloric acid	7647-01-0	0.33	Historical AES, AP-42
Hydrofluoric acid	7664-39-3	0.05	Historical AES, AP-42
Isophorone	78-59-1	5.92E-03	AP-42
Manganese	7439-96-5	5.05E-03	AP-42
Mercury	7439-97-6	4.82E-05	CEMS
Methyl bromide	74-83-9	1.63E-03	AP-42
Methyl chloride	74-87-3	5.41E-03	AP-42
Methyl ethyl ketone	78-93-3	3.98E-03	AP-42
Methyl hydrazine	60-34-4	1.73E-03	AP-42
Methyl methacrylate	80-62-6	2.04E-04	AP-42
Methyl tert butyl ether	1634-04-4	3.57E-04	AP-42
Methylene chloride	75-09-2	2.96E-03	AP-42
Naphthalene	91-20-3	1.54E-04	AP-42
Nickel	7440-02-0	2.88E-03	AP-42
Phenol	108-95-2	1.63E-04	AP-42
Propionaldehyde	123-38-6	3.88E-03	AP-42
Propylene oxide	76-56-9	-	-
Selenium	7782-49-2	1.34E-02	AP-42
Styrene	100-42-5	2.55E-04	AP-42
Tetrachloroethylene	127-18-4	4.39E-04	AP-42
Toluene	108-88-3	2.45E-03	AP-42
Vinyl acetate	108-05-4	7.75E-05	AP-42
Xylenes	1330-20-7	3.77E-04	AP-42
Acenaphthene	83-32-9	5.20E-06	AP-42
Acenaphthylene	203-96-8	2.55E-06	AP-42
Anthracene	120-12-7	2.14E-06	AP-42
Benz(a)anthracene	56-55-3	8.16E-07	AP-42
Benzo(a)pyrene	50-32-8	3.88E-07	AP-42
Benzo(b)fluoranthene	205-99-2	1.12E-06	AP-42
Benzo(ghi)perylene	191-24-2	2.75E-07	AP-42
Benzo(k)fluoranthene	207-08-9	1.12E-06	AP-42
Chrysene	218-01-9	1.02E-06	AP-42
Dibenzo(a,h)anthracene	53-70-3	-	AP-42
Fluoranthene	206-44-0	7.24E-06	AP-42
Fluorene	86-73-7	9.28E-06	AP-42
Indeno(1,2,3-cd)pyrene	193-39-5	6.22E-07	AP-42
Phenanthrene	85-01-8	2.75E-05	AP-42
Pyrene	129-00-0	3.37E-06	AP-42

ATTACHMENT 3

Station: Dickerson
Reporting Year: 2019
Registration No: 15001930003
Name: Unit 3

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO2	124-38-9	47,216.42	CEMS
N2O	10024-97-2	0.79	40 CFR 98
CH4	74-82-8	5.42	40 CFR 98
1,3 Butadiene	106-99-0	-	-
1,1,1-Trichloroethane	71-55-6	1.87E-04	AP-42
2,3,7,8 -Tetrachlorodibenzo p dioxin	1746-01-6	1.34E-10	AP-42
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	4.77E-10	AP-42
2,4-Dinitrotoluene	121-14-2	2.62E-06	AP-42
2-Chloroacetophenone	532-27-4	6.54E-05	AP-42
Acetaldehyde	75-07-0	5.33E-03	AP-42
Acetophenone	98-86-2	1.40E-04	AP-42
Acrolein	107-02-8	2.71E-03	AP-42
Ammonia	7664-41-7	0.06	Historical AES
Antimony	7440-36-0	1.68E-04	AP-42
Arsenic	7440-38-2	3.87E-03	AP-42
Benzene	1746-01-6	1.21E-02	AP-42
Benzyl chloride	100-44-7	6.54E-03	AP-42
Beryllium	7440-41-7	2.24E-04	AP-42
Biphenyl	92-52-4	1.59E-05	AP-42
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	6.82E-04	AP-42
Bromoform	75-25-2	3.64E-04	AP-42
Cadmium	7440-43-9	5.04E-04	AP-42
Carbon disulfide	75-15-0	1.21E-03	AP-42
Chlorobenzene	108-90-7	2.06E-04	AP-42
Chloroform	67-66-3	5.51E-04	AP-42
Chromium	7440-43-7	2.46E-03	AP-42
Chromium (VI)	18540-29-9	7.38E-04	AP-42
Cobalt	7440-48-4	9.35E-04	AP-42
Cumene	98-82-8	4.95E-05	AP-42
Cyanide	57-12-5	2.34E-02	AP-42
Dichlorobenzene	25321-22-6	-	-
Dimethyl sulfate	77-78-1	4.49E-04	AP-42
Ethyl benzene	100-41-4	8.78E-04	AP-42
Ethyl chloride	75-00-3	3.92E-04	AP-42
Ethylene dibromide	106-93-4	1.12E-05	AP-42
Ethylene dichloride	107-06-2	3.74E-04	AP-42
Ethylene glycol	107-21-1	-	-
Formaldehyde	50-00-0	6.35E-03	AP-42
Hexane	110-54-3	6.26E-04	AP-42
Hydrochloric acid	7647-01-0	0.30	Historical AES, AP-42
Hydrofluoric acid	7664-39-3	0.05	Historical AES, AP-42
Isophorone	78-59-1	5.42E-03	AP-42
Manganese	7439-96-5	4.63E-03	AP-42
Mercury	7439-97-6	4.49E-05	CEMS
Methyl bromide	74-83-9	1.50E-03	AP-42
Methyl chloride	74-87-3	4.95E-03	AP-42
Methyl ethyl ketone	78-93-3	3.64E-03	AP-42
Methyl hydrazine	60-34-4	1.59E-03	AP-42
Methyl methacrylate	80-62-6	1.87E-04	AP-42
Methyl tert butyl ether	1634-04-4	3.27E-04	AP-42
Methylene chloride	75-09-2	2.71E-03	AP-42
Naphthalene	91-20-3	1.44E-04	AP-42
Nickel	7440-02-0	2.64E-03	AP-42
Phenol	108-95-2	1.50E-04	AP-42
Propionaldehyde	123-38-6	3.55E-03	AP-42
Propylene oxide	76-56-9	-	-
Selenium	7782-49-2	1.23E-02	AP-42
Styrene	100-42-5	2.34E-04	AP-42
Tetrachloroethylene	127-18-4	4.02E-04	AP-42
Toluene	108-88-3	2.24E-03	AP-42
Vinyl acetate	108-05-4	7.10E-05	AP-42
Xylenes	1330-20-7	3.46E-04	AP-42
Acenaphthene	83-32-9	4.77E-06	AP-42
Acenaphthylene	203-96-8	2.34E-06	AP-42
Anthracene	120-12-7	1.96E-06	AP-42
Benz(a)anthracene	56-55-3	7.48E-07	AP-42
Benzo(a)pyrene	50-32-8	3.55E-07	AP-42
Benzo(b)fluoranthene	205-99-2	1.03E-06	AP-42
Benzo(ghi)perylene	191-24-2	2.52E-07	AP-42
Benzo(k)fluoranthene	207-08-9	1.03E-06	AP-42
Chrysene	218-01-9	9.35E-07	AP-42
Dibenzo(a,h)anthracene	53-70-3	-	AP-42
Fluoranthene	206-44-0	6.63E-06	AP-42
Fluorene	86-73-7	8.50E-06	AP-42
Indeno(1,2,3-cd)pyrene	193-39-5	5.70E-07	AP-42
Phenanthrene	85-01-8	2.52E-05	AP-42
Pyrene	129-00-0	3.08E-06	AP-42

ATTACHMENT 4

Station: Dickerson
Reporting Year: 2019
Registration No: 15001940907
Name: CT 1

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO2	124-38-9	464.62	40 CFR 98
N2O	10024-97-2	0.00	40 CFR 98
CH4	74-82-8	0.02	40 CFR 98
1,3 Butadiene	106-99-0	4.56E-05	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	3.13E-05	AP-42
Benzene	1746-01-6	1.57E-04	AP-42
Benzyl chloride	100-44-7	-	-
Beryllium	7440-41-7	8.83E-07	AP-42
Biphenyl	92-52-4	-	-
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	-	-
Bromoform	75-25-2	-	-
Cadmium	7440-43-9	1.37E-05	AP-42
Carbon disulfide	75-15-0	-	-
Chlorobenzene	108-90-7	-	-
Chloroform	67-66-3	-	-
Chromium	7440-43-7	3.13E-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	-	-
Ethyl chloride	75-00-3	-	-
Ethylene dibromide	106-93-4	-	-
Ethylene dichloride	107-06-2	-	-
Ethylene glycol	107-21-1	-	-
Formaldehyde	50-00-0	7.98E-04	AP-42
Hexane	110-54-3	-	-
Hydrochloric acid	7647-01-0	-	-
Hydrofluoric acid	7664-39-3	-	-
Isophorone	78-59-1	-	-
Manganese	7439-96-5	2.25E-03	AP-42
Mercury	7439-97-6	3.42E-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	9.97E-05	AP-42
Nickel	7440-02-0	1.31E-05	AP-42
Phenol	108-95-2	-	-
Propionaldehyde	123-38-6	-	-
Propylene oxide	76-56-9	-	-
Selenium	7782-49-2	7.12E-05	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 5

Station: Dickerson
Reporting Year: 2019
Registration No: 15182290362
Name: HCT 1

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO2	124-38-9	37,149.50	CEMS
N2O	10024-97-2	0.07	40 CFR 98
CH4	74-82-8	0.71	40 CFR 98
1,3 Butadiene	106-99-0	2.01E-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	1.17E-02	AP-42
Acetophenone	98-86-2	-	-
Acrolein	107-02-8	1.87E-03	AP-42
Ammonia	7664-41-7	-	-
Antimony	7440-36-0	-	-
Arsenic	7440-38-2	5.17E-05	AP-42
Benzene	1746-01-6	3.77E-03	AP-42
Benzyl chloride	100-44-7	-	-
Beryllium	7440-41-7	1.46E-06	AP-42
Biphenyl	92-52-4	-	-
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	-	-
Bromoform	75-25-2	-	-
Cadmium	7440-43-9	2.26E-05	AP-42
Carbon disulfide	75-15-0	-	-
Chlorobenzene	108-90-7	-	-
Chloroform	67-66-3	-	-
Chromium	7440-43-7	5.17E-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	9.37E-03	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	2.09E-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	3.71E-03	AP-42
Mercury	7439-97-6	5.64E-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	5.45E-04	AP-42
Nickel	7440-02-0	2.16E-05	AP-42
Phenol	108-95-2	-	-
Propionaldehyde	123-38-6	-	-
Propylene oxide	76-56-9	8.50E-03	-
Selenium	7782-49-2	1.18E-04	AP-42
Styrene	100-42-5	-	-
Tetrachloroethylene	127-18-4	-	-
Toluene	108-88-3	3.81E-02	AP-42
Vinyl acetate	108-05-4	-	-
Xylenes	1330-20-7	1.87E-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 6

Station: Dickerson
Reporting Year: 2019
Registration No: 15182290363
Name: HCT 2

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO2	124-38-9	42,501.70	CEMS
N2O	10024-97-2	0.08	40 CFR 98
CH4	74-82-8	0.81	40 CFR 98
1,3 Butadiene	106-99-0	2.26E-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	1.42E-02	AP-42
Acetophenone	98-86-2	-	-
Acrolein	107-02-8	2.27E-03	AP-42
Ammonia	7664-41-7	-	-
Antimony	7440-36-0	-	-
Arsenic	7440-38-2	5.09E-05	AP-42
Benzene	1746-01-6	4.51E-03	AP-42
Benzyl chloride	100-44-7	-	-
Beryllium	7440-41-7	1.43E-06	AP-42
Biphenyl	92-52-4	-	-
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	-	-
Bromoform	75-25-2	-	-
Cadmium	7440-43-9	2.22E-05	AP-42
Carbon disulfide	75-15-0	-	-
Chlorobenzene	108-90-7	-	-
Chloroform	67-66-3	-	-
Chromium	7440-43-7	5.09E-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	1.13E-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	2.53E-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	3.65E-03	AP-42
Mercury	7439-97-6	5.55E-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	6.23E-04	AP-42
Nickel	7440-02-0	2.13E-05	AP-42
Phenol	108-95-2	-	-
Propionaldehyde	123-38-6	-	-
Propylene oxide	76-56-9	1.03E-02	-
Selenium	7782-49-2	1.16E-04	AP-42
Styrene	100-42-5	-	-
Tetrachloroethylene	127-18-4	-	-
Toluene	108-88-3	4.61E-02	AP-42
Vinyl acetate	108-05-4	-	-
Xylenes	1330-20-7	2.27E-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 7

Station: Dickerson
Reporting Year: 2019
Registration No: 15001990062
Name: Gasoline Pump

Pollutant	CAS	Emissions Tons/Year	Calculation Method
CO2	124-38-9	55.75	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 8

Station: Dickerson
Reporting Year: 2019

Station Summary

Pollutant	CAS	Emissions Tons/Year	Facility Threshold Tons/Year	Reportable? (Yes/No)
CO2	124-38-9	222,059.88	--	Yes
N2O	10024-97-2	2.55	--	Yes
CH4	74-82-8	17.92	--	Yes
1,3 Butadiene	106-99-0	4.73E-04	0.001	No
1,1,1-Trichloroethane	71-55-6	5.66E-04	10	No
2,3,7,8 -Tetrachlorodibenzo p dioxin	1746-01-6	4.04E-10	0.00000001	No
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1.44E-09	0.00000001	No
2,4-Dinitrotoluene	121-14-2	7.92E-06	0.1	No
2-Chloroacetophenone	532-27-4	1.98E-04	0.01	No
Acetaldehyde	75-07-0	4.20E-02	0.1	No
Acetophenone	98-86-2	4.24E-04	1	No
Acrolein	107-02-8	1.23E-02	0.01	Yes
Ammonia	7664-41-7	1.51E-01	1.00	No
Antimony	7440-36-0	5.09E-04	0.01	No
Arsenic	7440-38-2	1.18E-02	0.0001	Yes
Benzene	1746-01-6	4.52E-02	0.1	No
Benzyl chloride	100-44-7	1.98E-02	0.1	No
Beryllium	7440-41-7	6.69E-04	0.0001	Yes
Biphenyl	92-52-4	4.81E-05	0.1	No
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	2.06E-03	0.1	No
Bromoform	75-25-2	1.10E-03	0.1	No
Cadmium	7440-43-9	1.57E-03	0.0001	Yes
Carbon disulfide	75-15-0	3.68E-03	1	No
Chlorobenzene	108-90-7	6.22E-04	1	No
Chloroform	67-66-3	1.67E-03	0.01	No
Chromium	7440-43-7	7.56E-03	0.01	No
Chromium (VI)	18540-29-9	2.23E-03	0.00001	Yes
Cobalt	7440-48-4	2.83E-03	0.001	Yes
Cumene	98-82-8	1.50E-04	10	No
Cyanide	57-12-5	7.07E-02	0.1	No
Dichlorobenzene	25321-22-6	0.00E+00	0.1	No
Dimethyl sulfate	77-78-1	1.36E-03	0.01	No
Ethyl benzene	100-41-4	2.34E-02	10	No
Ethyl chloride	75-00-3	1.19E-03	0.01	No
Ethylene dibromide	106-93-4	3.39E-05	0.001	No
Ethylene dichloride	107-06-2	1.13E-03	0.01	No
Ethylene glycol	107-21-1	0.00E+00	1	No
Formaldehyde	50-00-0	4.81E-01	0.01	Yes
Hexane	110-54-3	1.89E-03	10	No
Hydrochloric acid	7647-01-0	9.16E-01	0.1	Yes
Hydrofluoric acid	7664-39-3	1.44E-01	0.1	Yes
Isophorone	78-59-1	1.64E-02	1	No
Manganese	7439-96-5	2.36E-02	0.01	Yes
Mercury	7439-97-6	1.50E-04	0.001	No
Methyl bromide	74-83-9	4.52E-03	0.01	No
Methyl chloride	74-87-3	1.50E-02	0.1	No
Methyl ethyl ketone	78-93-3	1.10E-02	10	No
Methyl hydrazine	60-34-4	4.81E-03	0.001	Yes
Methyl methacrylate	80-62-6	5.66E-04	10	No
Methyl tert butyl ether	1634-04-4	9.90E-04	10	No
Methylene chloride	75-09-2	8.20E-03	1	No
Naphthalene	91-20-3	1.69E-03	1	No
Nickel	7440-02-0	8.05E-03	0.001	Yes
Phenol	108-95-2	4.52E-04	1	No
Propionaldehyde	123-38-6	1.07E-02	0.1	No
Propylene oxide	76-56-9	1.88E-02	0.1	No
Selenium	7782-49-2	3.74E-02	0.01	Yes
Styrene	100-42-5	7.07E-04	1	No
Tetrachloroethylene	127-18-4	1.22E-03	10	No
Toluene	108-88-3	9.10E-02	10	No
Vinyl acetate	108-05-4	2.15E-04	1	No
Xylenes	1330-20-7	4.25E-02	10	No
Acenaphthene	83-32-9	1.44E-05	0.01	No
Acenaphthylene	203-96-8	7.07E-06	0.1	No
Anthracene	120-12-7	5.94E-06	0.01	No
Benz(a)anthracene	56-55-3	2.26E-06	0.001	No
Benzo(a)pyrene	50-32-8	1.07E-06	0.0001	No
Benzo(b)fluoranthene	205-99-2	3.11E-06	0.001	No
Benzo(ghi)perylene	191-24-2	7.64E-07	0.01	No
Benzo(k)fluoranthene	207-08-9	3.11E-06	0.01	No
Chrysene	218-01-9	2.83E-06	0.01	No
Dibenzo(a,h)anthracene	53-70-3	0.00E+00	0.0001	No
Fluoranthene	206-44-0	2.01E-05	0.1	No
Fluorene	86-73-7	2.57E-05	0.01	No
Indeno(1,2,3-cd)pyrene	193-39-5	1.73E-06	0.001	No
Phenanthrene	85-01-8	7.64E-05	0.01	No
Pyrene	129-00-0	9.33E-06	0.01	No

Enclosure 4
Annual Compliance Certification



Mid-Atlantic, LLC

GenOn Mid-Atlantic, LLC
Dickerson Generating Station
21200 Martinsburg Rd.
Dickerson, MD 20842

March 30, 2020

Daniel Davis
Compliance Services Office
Air and Radiation Management Administration
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, MD 21230-1718

and

Paul Arnold
Office of Enforcement and Permit Review (3AP20)
US EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

RE: GenOn Dickerson 2019 Title V Permit Compliance Certifications

Dear Sirs:

Enclosed please find the GenOn Dickerson Generating Station 2019 Title V Permit Annual Compliance Certification. The 2019 Unit Capacity Factor table is also enclosed.

Both hard a copy and electronic versions of these Certifications are being sent to you, as well as electronically to the EPA at [R3 APD Permits@epa.gov](mailto:R3_APD_Permits@epa.gov). Please feel free to contact me at 202-359-5361 if there any questions about the enclosed monitoring reports.

Sincerely,

A handwritten signature in black ink that reads "David S. Cramer".

David S. Cramer
GenOn Environmental

Federal Operating Permit Program (40 CFR Part 71)
ANNUAL COMPLIANCE CERTIFICATION (A-COMP)

A. GENERAL INFORMATION

Permit No. 24-031-0019

Reporting Period: Beg 1 / 1 / 2019 End 12 / 31 / 2019

Source / Company Name Dickerson / GenOn Mid-Atlantic, LLC

Mailing Address: Street or P.O. Box 21200 Martinsburg Road

City Dickerson State MD ZIP 20842 - _____

Contact person Pete Heimlicher Title Environmental Specialist

Telephone (301) 601 - 6515 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): 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.

[Reference: COMAR 26.11.02.13G; Section II.8 Permit Availability]

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):

- (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).

[Section III.4 (d and e) Report of Excess Emissions and Deviations]

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 2019 that required oral notification. A semi-annual report was submitted during the reporting period for July 1 through December 31 of CY 2018 and for January 1 through June 30 of CY 2019, each by their respective due dates, and 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): 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.]

[Section III.7 Emissions Test Methods]

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.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Facility

Permit Term (Describe requirements and cross-reference): Section III-8 Emission Certification Report [COMAR 26.11.01.05, 26.11.02.19C & 26.11.02.19D] and Section III-9 Compliance Certification Report [COMAR 26.11.03.06G]

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

Compliance Methods for the Above (Description and Citation): The facility submitted the CY 2018 Emissions Certification Report and Compliance certification by the respective due dates.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Facility

Permit Term (Describe requirements and cross-reference): 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.

[Section III.11 Sampling and Emissions Testing Record Keeping]

Compliance Methods for the Above (Description and Citation): The facility submitted quarterly reports on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019 showing their compliance with all requirements mentioned above for sampling and emissions testing record keeping.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1, Section 1.3A - Visible Emissions for BYPASS Stack

The Permittee, in accordance with COMAR 26.11.01.10B, shall continuously monitor opacity of the stack gases using a continuous opacity monitor that is certified in accordance with 40 CFR Part 60, Appendix B and meets the quality assurance criteria of COMAR 26.11.31. Also covers Section IV, Table IV-1d.3 (CPCN 9140: SNCR Control System).

Compliance Methods for the Above (Description and Citation): The facility submitted quarterly reports on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019 certifying compliance of the continuous opacity monitor.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1, Sections 1.1B, 1.2B & 1.5B - PM Control SCRUBBER Stack

The maximum allowable emissions of particulate matter for Units 1 and 2 is 0.03 gr/scfd @ 50% excess air. [Table IV-1, Section 1.1B]

The Permittee in accordance with COMAR 26.11.01.04A(1) and July 22, 1992 Consent Order, shall conduct annual particulate testing. PM stack testing protocol & notification requirements.

Compliance Methods for the Above (Description and Citation): The facility completed annual particulate testing on these units between July 22-25, 2019. An updated testing protocol was submitted on January 3, 2018 and on file for the CY2019 testing. The required notification and report submittal deadlines were met.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1, Section 1.5 A - Visible Emissions for BYPASS Stack

All CEM system downtime that lasts or is expected to last more than 24 hours shall be reported to the Department by telephone before 10 a.m. of the first regular business day following the breakdown. The Permitted shall submit quarterly reports to the Department not later than 30 days following each calendar quarter. [Reference: COMAR 26.11.01.11E]

Compliance Methods for the Above (Description and Citation): The facility submitted CEM system quarterly reports on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1, Section 1.3B - PM Control for SCRUBBER Stack

The Permittee shall operate and maintain a particulate emissions monitoring system (PEMS).

Compliance Methods for the Above (Description and Citation): The facility submitted PM CEMs data in the quarterly reports on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019. The facility follows 40 CFR Part 60 Appendix B, Performance Spec 11 and 40 CFR Part 60 Appendix F, Procedure 2 maintenance procedures on the PEMS.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1, Section 1.1C - SO₂ Control

Except as provided in Condition E of this regulation, annual emissions of SO₂ from each affected electric generating unit may not exceed the following:

Unit 1: 1,238 tons per year

Unit 2: 1,355 tons per year

Unit 3: 1,285 tons per year [Table IV-1. Section 1.1C(2); COMAR 26.11.27.03C].

Compliance Methods for the Above (Description and Citation): The units met the MD HAA SO₂ annual emissions limits on a system-wide basis as demonstrated in the 2019 HAA annual report submitted on February 14, 2019.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1, Section 1.3C - SO₂ Control

The Permittee shall continuously monitor sulfur dioxide emissions using a CEM that meets the requirements of 40 CFR Part 75, Subpart B §75.10A(1) & (2). This continuous monitoring system shall be used to collect emissions information to demonstrate compliance with SO₂ standard, the Healthy Air Act limitations, and the Acid Rain Program. [Table IV-1, Section 1.3C; COMAR 26.11.03.06C; COMAR 26.11.27.05A, July 22, 1992 Consent Decree, and Acid Rain Permit]. Also covers Section IV, Table IV-1c.3 (CPCN 9087: FGD System).

The Permittee shall perform quality control/quality assurance procedures on the continuous emission monitoring system as established in 40 CFR Part 75, Appendix B. [Table IV-1, Section 1.3C]

Compliance Methods for the Above (Description and Citation): The facility submitted data on the CEM system in the quarterly reports on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019. 40 CFR Part 75 QA/QC procedures are followed to maintain compliance with the CEM.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1, Section 1.5C – SO₂ Control

Emission reporting requirements under 1992 Consent Decree, Healthy Air Act [COMAR 26.11.27.05B], Acid Rain Program [40 CFR Part 75], and CSAPR [40 CFR 97]

Compliance Methods for the Above (Description and Citation): The facility submitted the HAA Annual report for CY 2018 on February 14, 2019. In addition, the facility submitted data on the SO₂ control in the quarterly reports on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1, Section 1.1D – NO_x Control

Except as provided in Condition E of this regulation, annual emissions of NO_x from each affected electric generating unit may not exceed the following:

Unit 1: 554 tons per year

Unit 2: 607 tons per year

Unit 3: 575 tons per year [Table IV-1, Section 1.1D(2); COMAR 26.11.27.03C].

Compliance Methods for the Above (Description and Citation): The units met the MD HAA NO_x annual emissions limits on a system-wide basis as demonstrated in the 2019 HAA annual report submitted on February 14, 2019.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1, Section 1.3D – NO_x Control

Permittee shall continuously monitor nitrogen oxides emission that meet the requirements of 40 CFR 75, Subpart B 10A(2) and the Cross-State Air Pollution Rule. Also covers Section IV Table IV-1c.3 (CPCN 9087: FGD System) and Section IV Table IV-1d.3 (CPCN 9140: SNCR Control System).

The Permittee shall perform quality control/quality assurance procedures on the continuous emission monitoring system as established in 40 CFR Part 75, Appendix B. [Table IV-1, Section 1.3D]

Compliance Methods for the Above (Description and Citation): The facility submitted data on NO_x control in the quarterly reports on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019. 40 CFR Part 75 QA/QC procedures are followed to maintain compliance with the CEM.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1, Section 1.5D – NO_x Control

Emission reporting requirements under NO_x RACT [COMAR 26.11.09.08K], Healthy Air Act [COMAR 26.11.27.05B], Potomac River Consent Decree, Acid Rain Program, and CSAPR [40 CFR Part 75 & 40 CFR 97]

Compliance Methods for the Above (Description and Citation): The facility submitted data on the NO_x control in the quarterly reports on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019. In addition, to meet the Potomac River Consent Decree requirements, the facility submitted 30-day rolling NO_x reports monthly during the ozone season (June 11, 2019, July 17, 2019, August 28, 2019, September 23, 2019, and October 15, 2019), as well as quarterly during the non-ozone season (Q4: January 30, 2019, Q1: April 30, 2019). The facility also submitted the HAA Annual report for CY 2018 on February 14, 2019. Sufficient emissions allowances were held in the facility accounts to comply with the March 1, 2018 true-up for EPA (ARP & CSAPR) and RGGI programs.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1a, Potomac River Consent Decree

Monitoring, Record Keeping, and Reporting requirements of the Potomac River Consent Decree – Section IV, Paragraph 70.

Compliance Methods for the Above (Description and Citation): To meet the Potomac River Consent Decree requirements, the facility submitted 30-day rolling NO_x reports monthly during the ozone season (June 11, 2019, July 17, 2019 August 28, 2019, September 23, 2019, and October 15, 2019), as well as quarterly during the non-ozone season (Q4: January 30, 2019, Q1: April 30, 2019).

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV-1b, Section III, 1 through 5 - Compliance Assurance Monitoring

GenOn shall report on CAM Plan monitoring results for Units 1, 2, and 3 [40 CFR 64].
NOTE: CAM PLAN REQUIREMENTS APPLY TO BYPASS STACK OPERATION ONLY

Compliance Methods for the Above (Description and Citation): The facility submitted CAM Plan monitoring results on January 29, 2019, April 25, 2019, July 17, 2019, and October 29, 2019.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2 & 3

Permit Term (Describe requirements and cross-reference): Table IV-1c, Sections 1c.3 & 1c.5 - CPCN 9087: FGD System

18. GenOn shall operate Continuous Emissions Monitoring (CEM) systems for SO₂, NO_x and either O₂ or CO₂ as required under 40 CFR Part 75 and Continuous Opacity Monitoring (COM) systems for Dickerson Units 1, 2, and 3. [Table IV-1c, Section 1c.3]

20. GenOn shall submit to MDE-ARMA and US EPA written reports of the results of all performance test conducted to demonstrate compliance with the standards set forth in applicable NSPS within 60 days of completion of the tests. [Table IV-1c, Section 1c.5]

Compliance Methods for the Above (Description and Citation): A CEMS is used at all times to monitor SO₂, NO_x and either O₂ or CO₂ as required under 40 CFR Part 75, and per COMAR 26.11.09.05C(4)(b), a PM CEM is used at all times to monitor particulate matter emissions instead of a COM. CEMS and PM CEM monitoring data are submitted to the Department quarterly. All performance test results are submitted within 60 days of the completion of the test.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2 & 3

Permit Term (Describe requirements and cross-reference): Table IV-1c, Sections 1d.3 & 1d.4 - CPCN 9140: SNCR Control System

12. GenOn shall operate a Continuous Emissions Monitoring (CEM) system on the common stack for Units 1, 2, and 3 for NO_x that is installed, calibrated, operated, and certified in accordance with 40 CFR Part 75. [Table IV-1d, Section 1d.3]

17. GenOn shall maintain required records related to the operation of the SNCR on Units 1, 2, and 3. [Table IV-1d, Section 1d.4]

Compliance Methods for the Above (Description and Citation): A CEMS is used at all times to monitor NO_x as required under 40 CFR Part 75. All required data are maintained onsite.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV, Section 1e.3 MACT Subpart UUUUU

§63.10010 - Monitoring, Installation, Operation, & Maintenance Requirements

(i)(2) Operate and maintain your PM CEMS according to the procedures and requirements in Procedure 2—Quality Assurance Requirements for Particulate Matter Continuous Emission Monitoring Systems at Stationary Sources in Appendix F to part 60 of this chapter.

(i) You must conduct the relative response audit (RRA) for your PM CEMS at least once annually.

(ii) You must conduct the relative correlation audit (RCA) for your PM CEMS at least once every 3 years.

Compliance Methods for the Above (Description and Citation): The RRA was conducted on October 23, 2019. The RCA PS-11 recurve was completed on October 5, 2018.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Table IV, Section 1e.5 MACT Subpart UUUUU

Each compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. [40 CFR 63.10031(b)(3)]

§63.10031(c) The compliance report must contain the information required in §63.10031(c)(1) through (4):

- (1) The information required by the summary report located in 63.10(e)(3)(vi).
- (2) The total fuel use by each affected source subject to an emission limit, for each calendar month within the semiannual reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by EPA or your basis for concluding that the fuel is not a waste, and the total fuel usage amount with units of measure.
- (3) Indicate whether you burned new types of fuel during the reporting period. If you did burn new types of fuel you must include the date of the performance test where that fuel was in use.
- (4) Include the date of the most recent tune-up for each unit subject to the requirement to conduct a performance tune-up according to §63.10021(e). Include the date of the most recent burner inspection if it was not done every 36 (or 48) months and was delayed until the next scheduled unit shutdown.

Compliance Methods for the Above (Description and Citation): The facility submitted the CY 2018 second half semi-annual report on January 27, 2019, and the CY 2019 first half semi-annual report on July 30, 2019 containing all the information required by MACT Subpart UUUUU.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Unit DCT 1

Permit Term (Describe requirements and cross-reference): Table IV-2, Section 2.3A - Visible Emissions

GenOn 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 minutes period every 168 hours of operation or at a minimum once per year. If turbine operates less than 100 hours per calendar year requirements waived.

Compliance Methods for the Above (Description and Citation): The facility conducted a Method 9 on unit DCT 1 on November 26, 2019. The unit ran a total of 10.4 hrs in 2019.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Unit DCT 1

Permit Term (Describe requirements and cross-reference): Table IV-2, Section 2.5A - Visible Emissions

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".

Compliance Methods for the Above (Description and Citation): There were no incidents of excess visible emissions or deviations from this permit requirement for CY 2019. This is also shown in both semi-annual reports.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Unit DCT 1

Permit Term (Describe requirements and cross-reference): Table IV-2, Section 2.3B - SO₂ Control

GenOn shall obtain a certification from fuel supplier indicating that the oil complies with sulfur content limitation [COMAR 26.11.0.3.06].

Compliance Methods for the Above (Description and Citation): The facility maintains the fuel oil certification showing compliance with sulfur content limitation in its records.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Unit DCT 1

Permit Term (Describe requirements and cross-reference): Table IV-2, Section 2.5C - NO_x Control

GenOn shall provide certification of annual capacity factor of the units to the Department as part of the April certification report [COMAR 26.22.09.08G(1)(a) & COMAR 26.11.03.06C]

Compliance Methods for the Above (Description and Citation): The capacity factor for CY 2018 was included in the Annual Report submitted on March 26, 2019. The capacity factor for CY 2019 has been included with this report.

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 3.3A - Visible Emissions

GenOn shall verify that there are no visible emissions when operating on oil. An observer shall perform an EPA Reference Method 9 observation of stack emissions for 18 minutes period every 168 hours of operation or at a minimum once per year.

Compliance Methods for the Above (Description and Citation): The facility conducted a Method 9 VEO on Units HCT 1 & 2 on March 7, 2019.

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 3.3B & Section 3.5B – SO₂ Control

NSPS SO₂ monitoring & reporting requirements of Subpart GG 40 CFR 60.334, Acid Rain SO₂ monitoring & reporting requirements of 40 CFR Part 75, Subpart B, and CSAPR §97.

Compliance Methods for the Above (Description and Citation): The facility submitted data on SO₂ control for Units HCT 1&2 in the quarterly reports on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019. Sufficient emissions allowances were held in the facility accounts to comply with the March 1, 2019 true-up for EPA (ARP & CSAPR) and RGGI programs.

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 3.2C - NO_x Control

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)].

HCT-1 operated 415.0 hours and HCT-2 operated 479.3 hours in 2019.

Compliance Methods for the Above (Description and Citation): Neither unit was operated for more than 500 hours during CY 2019 thus, no combustion analysis was required.

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 3.3C & Section 3.5C – NO_x Control

NSPS NO_x monitoring & reporting requirements of Subpart GG 40 CFR 60.334, Acid Rain Program NO_x monitoring & reporting requirements of 40 CFR Part 75, Subpart B, and CSAPR §97.

Compliance Methods for the Above (Description and Citation): The facility submitted data on NO_x control for Units HCT 1&2 in the quarterly reports on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019. Sufficient emissions allowances were held in the Dickerson accounts to comply with the March 1, 2019 true-up for EPA (ARP & CSAPR) and RGGI programs.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Unit HCT 1&2

Permit Term (Describe requirements and cross-reference): Table IV-3, Section 3.5C - NO_x Control

NO_x RACT - GenOn to provide capacity factor of equipment in April 1 certification reports [COMAR 26.11.09.08G(1)(a)].

Compliance Methods for the Above (Description and Citation): The capacity factor for CY 2018 was included in the Annual Report submitted on March 26, 2019. The capacity factor for CY 2019 has been included with this report.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Unit HCT 1&2

Permit Term (Describe requirements and cross-reference): Table IV-3, Sections 3.1G, 3.4G, and 3.5G - Operating Limitation

Natural gas service curtailments or interruptions shall be verified by a letter each year from the unit's natural gas supplier. 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 Case No. 8063]

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 2019 were provided in the quarterly report submitted on January 29, 2020.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Coal & Ash Handling Equipment

Permit Term (Describe requirements and cross-reference): Table IV-4, Sections 4.3 & 4.4

GenOn shall prepare and maintain onsite a BMP plan for prevention of airborne PM and shall perform a walk through inspection of the facility to look for fugitive emissions, to verify that reasonable precautions are being implemented and to determine whether the reasonable precautions need to be revised. The inspection shall be conducted at a minimum of once per month at times when the effectiveness of the reasonable precautions can be assessed. Inspection records must be maintained for a period of at least 5 years. [COMAR 26.11.03.06C]
In facility records.

Compliance Methods for the Above (Description and Citation): The BMP plan is maintained onsite and is used to ensure that the facility is taking reasonable precautions to prevent PM from being airborne from the coal & ash handling equipment. Inspections occur monthly, and records have been maintained for at least 5 years.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Units 1, 2 & 3

Permit Term (Describe requirements and cross-reference): Section VI, State Only - Visible Emissions

Certain fuel burning equipment are required to install and operate COM systems. [COMAR 26.11.09.05]

Compliance Methods for the Above (Description and Citation): A COMS is installed on the BYPASS stack associated with Units 1, 2, and 3.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Section VI, State Only - March 2008 Opacity Consent Decree

GenOn shall submit quarterly PM CEMS reports to the Department that comply with COMAR 26.11.01.11E(2)(c). All data shall be reported in 24-hour rolling averages. [Reference: Consent Decree Section X: Installation of Particulate Matter CEMS, Paragraph 36]

Compliance Methods for the Above (Description and Citation): The facility submitted data on the PM CEMS in the quarterly reports on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Section VI, State Only - March 2008 Opacity Consent Decree

Beginning with the quarter that commences on January 1, 2008, GenOn shall submit to the Department quarterly reports describing the status of GenOn's compliance with the terms and conditions of the Consent Decree. Each quarterly report shall be due no later than 30 days following the end of the quarter, unless such date falls on a weekend or holiday, in which case the report shall be due on the next business day. The first quarterly report shall be due on April 30, 2008. [Reference: Consent Decree Section XIV. Reporting, Paragraph 45]

Compliance Methods for the Above (Description and Citation): The facility submitted the quarterly reports within 30 days following the end of the quarter on January 30, 2019, April 30, 2019, July 26, 2019, and October 28, 2019 which describe the status of GenOn's compliance with the requirements of the March 2008 Opacity Consent Decree.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Section VI, State Only - Alternate Operating Scenario

The Permittee shall burn used oil and boiler chemical cleaning waste materials in the utility boilers.

COMAR 26.11.09.10 - Requirements to Burn Used Oil and Waste Combustible Fluid as Fuel. "Specifications for Used Oil.

(1) Except as provided in §B(2) of this regulation, used oil specifications are as follows:

Material Allowable Level

- (a) Lead 100 ppm
- (b) Total halogens 4,000 ppm
- (c) Arsenic 5 ppm
- (d) Cadmium 2 ppm
- (e) Chromium 10 ppm
- (f) Flash point 100° F minimum

(2) For used oil that does not satisfy the rebuttable presumption for halogens at 40 CFR 279.10(b)(1)(ii) and 279.63, the maximum allowable level for halogens may not exceed 1,000 ppm."

Record keeping

The Permittee shall maintain a record of the quantity of used oil that is burned and analyses by an independent laboratory of representative samples of the used oil.

Compliance Methods for the Above (Description and Citation): The facility analyzed the used oil burned in Units 1-3, and maintains the analyses in its records. The quantity of used oil burned by each utility boiler monthly is also recorded at the facility.

Status (Check one): ___ Intermittent Compliance X Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Section VI, State Only - MD Healthy Air Act

COMAR 26.11.27.05 - Monitoring and Reporting Requirements.

A. Compliance with the emission limitations in this chapter shall be demonstrated with a continuous emission monitoring system that is installed, operated, and certified in accordance with 40 CFR Part 75.

B. Beginning with calendar year 2007 and each year thereafter, the owner or operator of each electric generating unit subject to this chapter shall submit an annual report to the Department, the Department of Natural Resources, and the Public Service Commission. The report for each calendar year shall be submitted not later than March 1 of the following year.

C. Each report shall include:

- (1) Emissions performance results related to compliance with the emission requirements under this chapter;
- (2) Emissions of NO_x and SO₂, and beginning with calendar year 2010, mercury, emitted during the previous calendar year from each affected unit;
- (3) A current compliance plan; and
- (4) Any other information requested by the Department.

Compliance Methods for the Above (Description and Citation): A CEMS is installed on the stack associated with Units 1, 2 and 3, and is operated in accordance with all applicable state and federal requirements. The facility submitted the Healthy Air Act (HAA) Annual Report for CY 2018 on February 14, 2019.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Section VI, State Only - Management of CCBs [COMAR 26.04.10.03]

A person may not transport coal combustion byproducts without taking reasonable precautions to prevent particulate matter from becoming airborne. These reasonable precautions shall include, at a minimum the following:

- (i) Vehicles transporting coal combustion byproducts shall be fully enclosed, or fully enclosed on all sides and covered with a firmly secured canvas or similar type covering, so as to prevent any coal combustion byproducts from blowing off, falling off, or spilling out of the vehicle or the coal combustion byproducts shall be handled and transported in sealed containers designed for transportation of powdery solids;
- (ii) Before leaving a site where coal combustion byproducts are loaded or off-loaded, vehicles transporting coal combustion byproducts shall be rendered clean and free of excess material or debris that could blow off, fall off, or spill during transport;
- (iii) Coal combustion byproducts being loaded into or off-loaded from a vehicle shall be sufficiently moistened or otherwise conditioned or contained to prevent particulate coal combustion byproducts from becoming airborne or causing fugitive air emissions; and
- (iv) Transporters of coal combustion byproducts shall maintain an inspection log that shall be maintained in each vehicle at all times during transport of coal combustion byproducts that shall certify compliance with the standards in this regulation .03B(3)(b).

Compliance Methods for the Above (Description and Citation): The facility ensures that all reasonable precautions listed above are taken to prevent particulate matter from becoming airborne.

Status (Check one): Intermittent Compliance Continuous Compliance

Emission Unit ID(s): Units 1, 2, & 3

Permit Term (Describe requirements and cross-reference): Section VI, State Only - MD Ozone NO_x Regulation

COMAR 26.11.38.04 – Compliance Demonstration Requirements

(3) The owner or operator of an affected electric generating unit subject to §.03(A)(2) of this chapter shall submit a unit-specific report for each day the unit exceeds its NO_x emission rate of §A(2) of this regulation.

COMAR 26.11.38.05 – Reporting Requirements

(1) Beginning 30 days after the first month of the ozone season following the effective date of this chapter, each affected electric generating unit subject to the requirements of this chapter shall submit a monthly report to the Department detailing the status of compliance with this chapter during the ozone season.

(2) Each subsequent monthly report shall be submitted to the Department not later than 30 days following the end of the calendar month during the ozone season.

Compliance Methods for the Above (Description and Citation): The facility submitted reports on June 11, 2019, July 10, 2019, August 12, 2019, September 6, 2019, and October 27, 2019 to meet compliance with the MD Ozone NO_x regulation reporting requirements.

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).

<p>Permit Term for Which There was a Deviation:</p> <p>There were no deviations in CY2019 at this facility.</p> <p>Emission Units (unit IDs):</p> <p>Deviation Start ____/____/____ ____:____ End:____/____/____ ____:____</p> <p>Date Written Report Submitted ____/____/____</p>
<p>Permit Term for Which There was a Deviation:</p> <p>Emission Units (unit IDs):</p> <p>Deviation Start ____/____/____ ____:____ End:____/____/____ ____:____</p> <p>Date Written Report Submitted ____/____/____</p>
<p>Permit Term for Which There was a Deviation:</p> <p>Emission Units (unit IDs):</p> <p>Deviation Start ____/____/____ ____:____ End:____/____/____ ____:____</p> <p>Date Written Report Submitted ____/____/____</p>
<p>Permit Term for Which There was a Deviation:</p> <p>Emission Units (unit IDs):</p> <p>Deviation Start ____/____/____ ____:____ End:____/____/____ ____:____</p> <p>Date Written Report Submitted ____/____/____</p>

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, Approval Expires 05/31/2019

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 Official

Name: (Last) David (First) Bennett (MI) M.

Title Plant Manager

Street or P.O. Box 21200 Martinsburg Road

City Dickerson State MD ZIP 20842 -

Telephone (301) 601 - 6522 Ext. Facsimile () -

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) *David M. Bennett*

Name (typed) David M. Bennett Date: 3 / 10 / 2020

**Year 2019 Net Capacity Factor for GenOn Dickerson,
Morgantown and Chalk Point Units**

Unit	Capacity Factor (%)
Dickerson	
Dickerson Unit 1	2.00%
Dickerson Unit 2	2.60%
Dickerson Unit 3	2.40%
Dickerson DCT1	0.02%
Dickerson HCT1	3.70%
Dickerson HCT2	4.50%
Morgantown	
Morgantown Unit 1	11.1%
Morgantown Unit 2	21.3%
Morgantown CT 1	0.04%
Morgantown CT 2	0.00%
Morgantown CT 3	0.08%
Morgantown CT 4	0.11%
Morgantown CT 5	0.08%
Morgantown CT 6	0.02%
Aux. Boiler 1 - Out of Service	0.00%
Aux. Boiler 2	5.17%
Aux. Boiler 3 - Out of Service	0.00%
Aux. Boiler 4	3.88%
Chalk Point	
Chalk Point Unit 1	6.80%
Chalk Point Unit 2	8.80%
Chalk Point Unit 3	0.90%
Chalk Point Unit 4	0.50%
Chalk Point CT 1	0.02%
Chalk Point CT 2	0.01%
Chalk Point CT 3	0.05%
Chalk Point CT 4	0.01%
Chalk Point CT 5	0.10%
Chalk Point CT 6	0.07%
SMECO CT	0.13%
Aux Boiler 3 - Out of service	0.00%
Aux Boiler 4 - Out of service	0.00%
Aux Boiler 5	2.81%
Aux Boiler 6	3.13%
Aux Boiler 7	2.56%