AIR AND RADIATION ADMINISTRATION
DRAFT PART 70 OPERATING PERMIT

DOCKET # 24-015-0202

COMPANY: Rock Springs Generation Facility

LOCATION: 1423 Rock Springs Road
Rising Sun, MD 21911

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

TITLE V – PART 70 OPERATING PERMIT PROGRAM OVERVIEW

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

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

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

Public Participation Process

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

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

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

Citizen Petition to EPA to Object to Permit Issuance

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

Applicant Objection to Permit Issuance and Recourse

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

MARYLAND DEPARTMENT OF THE ENVIRONMENT
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 Rock Springs Generation Facility located in Cecil County, MD. The facility includes four GE190 MW gas turbines, one natural gas fired heater equipped with low NOx burners, and two diesel fired emergency generators.

The applicant is represented by:

Mr. Clifford Chew, General Manager
1423 Rock Springs Road
Rising Sun, Maryland 21911

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

https://tinyurl.com/DraftTitleV

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

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

A Request for public hearing shall include the following:

1) The name, mailing address, and telephone number of the person making the request;

2) The names and addresses of any other persons for whom the person making the request 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 via email at Shannon.heafey@maryland.gov or by post at Air Quality Permits Program, Air and Radiation Administration, 1800 Washington Boulevard Suite 720, Baltimore, Maryland 21230-1720. Further information may be obtained by calling Ms. Shannon Heafey at (410) 537-4433.

ROCK SPRINGS GENERATION FACILITY
1423 ROCK SPRINGS ROAD
RISING SUN, MD 21911
PERMIT NO. 24-015-0202
PART 70 OPERATING PERMIT FACT SHEET

BACKGROUND

The Rock Springs Generation Facility, located at 1423 Rock Springs Road in Rising Sun, Maryland 21911 (Cecil County), is a simple-cycle natural gas-fired power generation plant. Its applicable Standard Industrial Classification (SIC) Code is 4911-Electric Services.

The facility is permitted for six (6) General Electric 7 FA gas combustion turbines; each rated 190 MW at base load, zero degrees ambient temperature. Each turbine operates in simple cycle mode and combusts only pipeline quality natural gas. Each turbine is equipped with dry, low-NO_X burners. Each of the four operating combustion turbines is equipped with a single discharge stack.

Four of the six turbines were installed in October 2001, and the remaining two (EU-5 and EU-6) were never installed. All four turbines (EU 1 thru E-4) are limited to a combined 8,000 hours of operation per year, based on a cumulative 12-month rolling average.

The facility was originally permitted to inject wastewater into the turbine exhaust stacks. However, the facility has not been using this practice. The prior renewal permit required the facility to submit to the Department for approval of an alternate compliance monitoring plan for particulate matter and volatile organic compound emission limits prior to resuming injection of wastewater into the turbine exhaust. For this renewal, the facility requested the removal of the option to inject wastewater into the turbine exhaust stacks.

The plant also includes two (2) [7.5 & 9.0] million British Thermal Units per hour (MMBtu/hr.) natural gas-fired heaters and one (1) 200 horsepower (hp) emergency diesel firewater pump and one (1) 4-stroke cycle, 6-cylinder switchyard diesel-fired emergency generator.

The facility received a Maryland Public Service commission (PSC) Certificate of Public Convenience and Necessity (CPCN) Final Order Number 7652 (Case No. 8821) on November 30, 2000, and a Prevention of Significant Deterioration (PSD) approval and non-attainment Major New source Review approval under the CPCN pursuant to the Code of Maryland Regulations (COMAR 26.11.02.17).

The following table summarizes the actual emissions from Rock Springs Generation Facility based on its Annual Emission Certification Reports:

Table 1: Actual Emissions

Year	NO_X (TPY)	SO_X (TPY)	PM_{10} (TPY)	CO (TPY)	VOC (TPY)	Total HAP (TPY)
2022	40.47	0.73	2.30	10.23	2.55	0.00
2021	41.38	0.75	2.35	10.50	2.61	0.00
2020	45.74	0.81	2.67	8.73	2.99	0.00
2019	14.35	0.29	0.78	4.99	0.87	0.00
2018	74.93	1.21	10.14	17.75	4.95	0.00

Cecil County is located in the Philadelphia Nonattainment Area for ozone. Therefore, the major source threshold for triggering Title V permitting requirements in Cecil County is 25 tons per year for VOC, 25 tons for NO_X, and 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 major source threshold, Rock Springs Generation Facility is required to obtain a Title V – Part 70 Operating Permit under COMAR 26.11.03.01.

On October 17, 2023, the Department received the Rock Springs Generation Facility's Part 70-permit renewal application, which was submitted by the Essential Power Rock Springs, LLC. An administrative completeness review was conducted, and the application was deemed to be complete. A completeness determination letter was sent to the Rock Springs Generation Facility on November 8, 2023, granting the facility an application shield.

Changes and Modifications to the Part 70 Operating Permit

There are no substantiative changes and/or modifications incorporated into the renewal Title V – Part 70 Operating Permit for Rock Springs Generation Facility.

New Source Performance Standards (NSPS) – 40 CFR Part 60

Subpart GG for Stationary Gas Turbines applies stationary gas turbines with a heat input at peak load equal to or greater than 10.7 gigajoules (10 million Btu) per hour, based on the lower heating value of the fuel fired which commences construction, modification, or reconstruction after October 3, 1977.
The combustion turbines were installed in 2001 and are subject to the requirements of Subpart GG.

National Emission Standard for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63

The Rock Springs Generation Facility is not a major HAP Emissions Source. Instead, it is an area HAP emission source and is subject to the following MACTs:

Subpart ZZZZ — Stationary Reciprocating Internal Combustion Engines. Requirements for Existing Stationary RICE Located at Area Sources of HAP Emission Units: 200 hp emergency diesel fired water engine and pump; and 100 kW emergency diesel switchyard generator are subject to this subpart.

Subpart JJJJJJ – Area Source Boiler MACT- Industrial, Commercial, and Institutional boilers and process heaters located at area sources of HAPs. The [7.5 & 9.0 MMBtu/hr.] heaters are exempt from the requirements of this MACT because they are all-natural gas fired units.

Compliance Assurance Monitoring (CAM) Requirement.

Rock Springs Generation Facility conducted a Compliance Assurance Monitoring (CAM) analysis for the facility and determined that the facility is not subject to the (CAM) Rule 40 CFR Subpart 64. CAM is intended to provide a reasonable assurance of compliance with applicable requirements under the Clean Air Act for large emission units that rely on air pollution control (APC) equipment to achieve compliance. The CAM approach establishes monitoring for the purpose of: (1) documenting continued operation of the control measures within ranges of specified indicators of performance (such as emissions, control device parameters, and process parameters) that are designed to provide a reasonable assurance of compliance with applicable requirements; (2) indicating any excursions from these ranges; and (3) responding to the data so that the cause or causes of the excursions are corrected. In order for a unit to be subject to CAM, the unit must be located at a major source, be subject to an emission limitation or standard; use a control device to achieve compliance; have post-control emissions of at least 100% of the major source amount (for initial CAM submittals); and must not otherwise be exempt from CAM. Applicability determinations are made on a pollutant-by-pollutant basis for each emission unit.

Rock Springs Generation Facility has no emissions sources which utilize any APC devices to achieve compliance, therefore CAM is not applicable.

Acid Rain Permit

Title IV of the Clean Air Act set a goal of reducing annual SO_2 emissions by 10 million tons below 1980 levels. To achieve these reductions, the law required a two-phase tightening of the restrictions placed on fossil fuel-fired power plants.

Phase I began in 1995 and affected 263 units at 110 mostly coal-burning electric utility plants located in 21 eastern and midwestern states. An additional 182 units joined Phase I of the program as substitution or compensating units, bringing the total of Phase I affected units to 445. Emissions data indicate that 1995 SO_2 emissions at these units nationwide were reduced by almost 40 percent below their required level.

Phase II, which began in the year 2000, tightened the annual emissions limits imposed on these large, higher emitting plants and also set restrictions on smaller, cleaner plants fired by coal, oil, and gas, encompassing over 2,000 units in all. The program affects existing utility units serving generators with an output capacity of greater than 25 megawatts and all new utility units.

Cross State Air Pollution Rule (CSPAR)

The U.S. Environmental Protection Agency (EPA) issued the Cross-State Air Pollution Rule (CSAPR) in July 2011 to address Clean Air Act requirements concerning interstate transport of air pollution and to replace the previous Clean Air Interstate Rule (CAIR) which the D.C. Circuit remanded to the EPA for replacement. Following the original rulemaking, CSAPR was amended by three further rules known as the Supplemental Rule, the First Revisions Rule, and the Second Revisions Rule. As amended, CSAPR requires 28 states to limit their state-wide emissions of sulfur dioxide (SO_2) and/or nitrogen oxides (NOx) 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 SO_2, 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 is now required in 2015 and 2016 and compliance with the rule's Phase 2 emissions budgets and assurance provisions is now required in 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. On April 30, 2021, the Revised CSAPR Update was published in the federal register, with an effective date of June 29, 2021.

This renewal Part 70 permit identifies the applicable regulations of the CSAPR rule as found in 40 CFR Part 97 subparts AAAAA - NO_X Annual Trading Program, subparts GGGGG - NO_X Ozone Season Group 3 Trading Program, and subpart CCCCC SO_2 Group 1 Trading Program.

Regional Greenhouse Gas Initiative

The Regional Greenhouse Gas Initiative (RGGI) is a market-based carbon dioxide (CO_2) cap and trade program designed to reduce CO_2 emissions from fossil fuel-fired power plants. It is a Maryland Sate-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 CO_2 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 CO_2 emissions from fossil fuel-fired electric generating units located in Maryland having a capacity of at least 25 megawatts;
2) Distribute CO_2 allowances to stakeholders through auction, sale and/or allocation;
3) Require each affected source to have a CO_2 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 CO_2 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 CO_2 emissions.
9) Require affected sources to submit an application for a CO_2 Budget Permit. A CO_2 Budget Permit when issued will be an attachment to the Part 70 permit.

Greenhouse Gas (GHG) Emissions

Rock Springs Generation Facility emits the following greenhouse gases (GHGs) related to Clean Air Act requirements: carbon dioxide, methane, and nitrous oxide. These GHGs originate from various processes contained within the facility premises applicable Rock Springs Generation Facility. 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 reports for the years 2020, 2021, and 2022, showed that Rock Springs Generation Facility is a major source (threshold: 100,000tpy CO_2e) for GHG's (see Table 2 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 Rock Springs Generation Facility based on its Annual Emission Certification Reports:

GHG	Conversion factor	2022 tpy CO_2e	2021 tpy CO_2e	2020 tpy CO_2e
Carbon dioxide CO_2	1	143,674	146,594	166,877.25
Methane CH_4	25	59.75	62.5	70
Nitrous Oxide N_2O	298	71.52	78.37	83.44
Total GHG CO_{2eq}		**143,805.27**	**146,734.87**	**167,030.69**

EMISSION UNIT IDENTIFICATION

Rock Springs Generation Facility 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	ARA Registration Number	Emissions Unit Name and Description	Date of Installation
EU-1	5-0076	Four (4) General Electric 7 FA gas combustion turbines, each with a maximum output of 190 MW	October 2001
EU-2	5-0077		
EU-3	5-0078		
EU-4	5-0079		
EU-7	6-0205	One (1) 9 million Btu per hour natural gas fired heater equipped with low NO_X burners.	October 2001
EU-8	N/A	One (1) 200 horsepower (hp) emergency diesel fire-water engine and pump.	September 2002
EU-9	N/A	One (1) 100 kilowatt (kW) emergency diesel switchyard generator.	September 2002
EU-10	015-0202-5-0148	One (1) 7.5 million Btu per hour natural gas fired heater equipped with low NO_X burners.	November 2017

AN OVERVIEW OF THE PART 70 PERMIT

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

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

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

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

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

Emission Units: Combustion Turbines

EU-1 thru EU-4 – Four (4) identical simple cycle mode combustion turbines fueled by natural gas and rated 190 MW at base load, zero degrees ambient temperature. Each turbine operates in simple cycle mode and combusts only pipeline quality natural gas. Each turbine is equipped with dry, low-NO_X burners. (**5-0076 thru 5-0079**)

Rock Springs Generation facility was issued a Certificate of Public Convenience and Necessity (CPCN) Final Order Number 7652 (Case No. 8821) on November 30, 2000 and a Prevention of Significant Deterioration (PSD) approval and non-attainment Major New Source review approval under the CPCN pursuant to the Code of Maryland Regulations (COMAR 26.11.02.17). Construction of the combustion turbines began in October 2001. Only four units **[EU-1 thru EU-4]** have been built. The combustion turbines are also subject to 40 CFR Part 60, Subpart GG. The approved BACT and LAER determinations are based upon the combustion turbines burning only pipeline quality natural gas.

Compliance Status:
During the June 8, 2023 full compliance inspection, the turbines were offline. The plant is a peaking facility and conditions did not warrant production and the time of the inspection.

Initial performance testing conducted by the Permittee in 2002 & 2003 as follows:
Unit #1 tested June 2 – June 4, 2003,
Unit #2 tested June 7 & 8, 2003,
Unit # 3 tested December 18 & 19, 2002, and
Unit #4 tested Jan 9, 2003
Results reported as follows:
PM emissions less than 18 lb./hr. [Ranged 2.7-5.5 lb./hr.]
NO_X emissions less than 64.0 lb./hr. [Ranged 37.2 – 50.0 lbs./hr.]. Also reported NO_X emissions less than 9.0 ppmvd. [Ranged 7.3 thru 7.7 ppmvd].
VOC emissions of less than 3.0 lb./hr. [Ranged from 0 thru 2.7 lb./hr.].
CO emissions less than 32 lb./hr. [Ranged 0.0 – 1.6 lb./hr.]. Also CO concentrations are less than 9.0 ppmvd. [Ranged 0.0 – 0.4 ppmvd].

A CEMS Relative Accuracy Test Audit (RATA) was conducted in 2023 on July 11 (Unit 3) and July 12 (Unit 4) and July 13 (Units 1 and 2) for CO & NO_X ppm, NO_X Lb/mmbtu and $\%O_2$ on all four units. The CEMS on all units passed the test and are in compliance.

The 2022 ECR stated the run hours for the units as follows: Unit 1 = 343 hrs.; Unit 2 = 381 hrs.; Unit 3 = 437 hrs. and Unit 4 = 408 hrs.

Applicable Standards and limits:

A. Control of Visible Emissions

COMAR 26.11.09.05A(1)–Fuel Burning Equipment.

"In Areas, I, II, V, and VI, 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 greater than 20 percent opacity."

Exceptions. "Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, start-up, 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 sixty consecutive minute period."

Compliance Demonstration:

The Permittee shall report incidents of visible emissions in accordance with Section III Condition 4 "Report of Excess Emissions and Deviations".
[Reference: COMAR 26.11.03.06C]

Rationale for Periodic Monitoring

The turbines burn only pipeline quality natural gas, a very clean burning fuel. The turbines are designed to operate with no visible emissions, and would have to have a serious malfunction in order for visible emissions to occur. If the Permittee performs preventative maintenance as recommended by the turbine manufacturer and supplemented with the facility's maintenance experiences, the turbines will continue to operate with no visible emissions and minimize the possibility of malfunctions. The Permittee has the general requirement to report any excess emissions.

B. Control of Particulate Matter Emissions

Concentration of PM_{10} shall not exceed 18 lb./hr. for each turbine and shall not exceed 134.5-tpy for all six combustion turbines *(only 4 units installed)* combined on a 12-month rolling cumulative basis. **[Reference: CPCN #8821, Condition #14(a)(iii) & #17].**

Compliance Demonstration:
The Permittee is required to perform preventive maintenance to maintain the turbines in a condition such that they operate as designed. Records of the preventive maintenance that relates to combustion performance shall be maintained on site for 5 years and be submitted to the Department upon request.
The Permittee shall stack test one of the four identical units at least once during the life of the permit. The Permittee shall submit a test protocol to the Department for approval at least 30 days prior to the proposed test date. The Permittee shall maintain records of the stack test results and submit the results of any stack tests within 45 days after completion of the stack test.
[Reference: COMAR 26.11.03.06C]

Rationale for Periodic Monitoring
The turbines burn only pipeline quality natural gas, a very clean burning fuel. The particulate matter PSD emission standard is based upon the design of the turbines. If the Permittee performs preventive maintenance as recommended by the turbine manufacturer and supplemented with the facility's maintenance experiences, the turbines will continue to achieve the limitation.

Particulate emissions are directly related to combustion performance. One measure of combustion performance is the content of carbon monoxide in the exhaust gases. The facility continuously monitors CO emissions. During the initial performance tests for PM, CO content was measured and it demonstrates that if the CO is within the applicable limits, the PM emissions are in compliance with the applicable emission limit.
The Permittee will also perform stack test at least once during the life of the permit on one of the units to confirmed continued compliance with the PM limit.

C. Control of Sulfur Oxide Emissions
40 CFR 60.333 – **NSPS Subpart GG** which limits sulfur content in any fuel burned a gas turbine to 0.8 wt %.

"SO_2 emissions shall not exceed 2.5 lb./hr. for each combustion turbine, and 15-tpy for all six combustion turbines *(only 4 units installed)* combined in on a 12-month rolling cumulative basis." **[Reference: CPCN #8821, Condition #17]**
Note: Compliance with these limitations will be the use of fuel supplier certifications.

Compliance Demonstration:

The Permittee shall monitor the sulfur content and nitrogen content of the fuel being burned in the turbine. The frequency of determination of these values shall be as follows:

(1) If the turbine is supplied its fuel from a bulk storage tank, the value shall be determined on each occasion that fuel is transferred to the storage tank from any other source.

(2) If the turbine is supplied without intermediate bulk storage the values shall be determined and recorded daily. The Permittee may develop custom schedules for determination of values based on design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Administrator before they can be used to comply with paragraph (b) of this section.

[Reference: 40 CFR 60.334(b)]

The Permittee shall maintain on site for at least five years documents certifying the sulfur content of gas received or copies of the sulfur in fuel analyses.

[Reference: COMAR 26.11.03.06C]

For the purpose of reports required under §60.7(c), periods of excess emissions are any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent. The Permittee shall submit a summary report of excess emissions semiannually. All reports shall be postmarked by the 30th day following the end of each six-month period.

[Reference: 40CFR 60.334(c) and 60.7(c)]

Rationale for compliance demonstration:

The Permittee is required to comply with the monitoring, record keeping, and reporting requirements of NSPS Subpart GG. This limitation is based upon the Permittee burning pipeline natural gas. The Permittee will only burn pipeline quality natural gas so the Permittee will never violate this limitation.

Phase II Acid Rain Permit:

A renewal Phase II Acid Rain Permit is being reissued in conjunction with the issuance of this Part 70 permit (Appendix A). The Phase II Acid Rain permit requires the Permittee to limit the actual emissions of sulfur dioxide to the number of allowances that the Permittee holds in its account with the Environmental Protection Agency's Clean Air Markets Program at the end of each calendar year. An allowance is one ton of sulfur dioxide emissions. The Permittee is required to purchase allowances to cover all the actual emissions in each calendar year. However, the Acid Rain Permit prohibits the Permittee from emitting sulfur dioxide emissions in excess of sulfur oxides emissions allowed by the CPCN.

Cross-State Air Pollution Rule
See Table IV-1a. – CSAPR for requirements

D. Control of Nitrogen Oxide Emissions
40 CFR 60.332 – NSPS Subpart GG which limits each turbine to 75 ppmvd NO_X emissions at 15% O_2.

BACT shall be the use of natural gas fuel only, operation of advanced dry low-NO_X burner technology, and application of good combustion practices so that: "Concentrations of NO_X shall not exceed 9 parts per million by volume on dry basis (ppmvd) at 15% oxygen on a 30-day rolling average basis for each combustion turbine and the maximum one-hour average NO_X concentrations shall not exceed 10.5 ppmvd at 15% oxygen for each combustion turbine." **[Reference: CPCN #8821, Condition 14(a)(i)]**
Note: Compliance shall be demonstrated by use of CEM.

"LAER for NO_X shall be the use of natural gas only, operation of advanced dry low-NO_X burner technology, and application of good combustion practices. Concentrations of NO_X shall not exceed 9 ppmvd at 15% oxygen on a 30-day rolling average basis (except during startup and shutdown) for each combustion turbine. Maximum 1-hour average (except during startup and shutdown) shall not exceed 10.5 ppmvd at 15% oxygen. NO_X emissions shall not exceed 64 lb./hr. per turbine and 384 tons per year for all six turbines *(only 4 units installed)* combined on a 12-month rolling cumulative basis."
[Reference: CPCN #8821, Condition #14a(i), 15, 17a & MDE April 29, 2003 Letter]
Note: Compliance shall be demonstrated by use of CEM

Compliance Demonstration:
The Permittee shall perform QC/QA procedures as required by 40 CFR 75.10(a)(2). **[Reference: COMAR 26.11.03.06C]**
The Permittee shall operate, calibrate and maintain a CEMS to monitor the NO_X emissions from each turbine. **[Reference: CPCN #8821, Condition #9(o)]**. The Permittee shall certify CEM system in accordance with 40 CFR 75, Appendix A. **[Reference: 40 CFR §75.70].** *(All quarterly reports show compliance)*.

40 CFR 60.334(a) - NSPS Subpart GG which require any stationary turbine using water injection to control NO_X emissions to install and operate a Continuous Emissions Monitoring system to monitor and record the fuel being fired and the consumption and the ratio of water to fuel being fired in the turbine

(and shall be accurate to within +/- 5.0% and shall be approved by the Administrator).
40 CFR 60.334(b) - NSPS Subpart GG which require the Permittee to monitor the nitrogen content of the fuel. (See Condition C above)
The Permittee shall maintain records necessary to prepare a quarterly emissions reports that contain the requirements of COMAR 26.11.01.10G(2)(d). [**Reference: COMAR 26.11.03.06C**].
The Permittee shall submit a quarterly summary report to the Department not later than 30 days following each calendar quarter. The report shall be in a format approved by the Department, and shall include the following:
(1) The cause, time periods, and magnitude of all emissions which exceed the applicable emission standards;
(2) The source downtime including the time and date of the beginning and end of each downtime period and whether the source downtime was planned or unplanned;
(3) The time periods and cause of all CEM downtime including records of any repairs, adjustments, or maintenance that may affect the validity of emission data;
(4) Quarterly totals of excess emissions, installation downtime, and CEM downtime during the calendar quarter;
(5) Quarterly quality assurance activities; and
(6) Daily calibration activities that include reference values, actual values, absolute or percent of span differences, and drift status; and
(7) Other information required by the Department that is determined to be necessary to evaluate the data, to ensure that compliance is achieved, or to determine the applicability of this regulation." **[Reference: COMAR 26.11.09.08K(1) and COMAR 26.11.01.10G(2)(d)]**

Cross-State Air Pollution Rule
See Table IV-1a. – CSAPR for requirements

E. Control of VOC Emissions
VOC emissions shall not exceed 3 lb./hr. for each combustion turbine, and 18-tpy for all six combustion turbines *(only 4 units installed)* combined in on a 12-month rolling cumulative basis. [**Reference: CPCN #8821, Condition #17]**

Compliance Demonstration:
The Permittee shall perform preventative maintenance to maintain the turbine in a condition such that it operates as designed. The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion

performance and submit records of maintenance to the Department upon request.
The Permittee shall stack test one of the four identical units at least once during the life of the permit. The Permittee shall submit a test protocol to the Department for approval at least 30 days prior to the proposed test date. The Permittee shall maintain records of the stack test results and submit the results of any stack tests within 45 days after completion of the stack test. **[Reference: COMAR 26.11.03.06C]**

Rationale for Periodic Monitoring
VOC emissions from the turbines are directly related to combustion performance. One measure of combustion performance is the content of carbon monoxide in the exhaust gases. The facility continuously monitors CO emissions. During the initial performance tests for VOC, CO content was measured and it demonstrates that if the CO is within the applicable limits, the VOC emissions are in compliance with the applicable emission limit.

The VOC emission limit in the CPCN was based upon the Vendor's guarantee of performance. If the Permittee performs preventive maintenance as recommended by the turbine manufacturer and supplemented with the facility's maintenance experiences, the turbines will continue to achieve the limitation. The Permittee will also perform stack test at least once during the life of the permit on one of the units to confirmed continued compliance with the VOC limit.

F. Control of Carbon Monoxide Emissions
"BACT for CO shall be good combustion practices. Concentration of CO shall not exceed 9 ppmvd at 15% oxygen for each combustion turbine on a 30-day rolling average basis for each combustion turbine. Emissions of CO shall not exceed 32 lb./hr. (except during startup and shutdown) from each combustion turbine and 192 tons per year for all six combustion turbines *(only 4 units installed)* combined on a 12-month rolling cumulative basis."
[Reference: CPCN #8821, Condition #14(a)(ii), 17 & MDE April 29, 2003 Letter].

Compliance Demonstration:
The Permittee shall perform QC/QA procedures as required by 40 CFR 60, Appendix F and use a CEM to monitor CO emissions. The Permittee shall maintain records of the CO CEMs data and submit quarterly, the summaries of valid CEMs data for CO concentrations. The quarterly summary reports shall

satisfy the reporting requirements of COMAR 26.11.01.10G(2)(d). **[Reference: COMAR 26.11.03.06C].** *(All quarterly reports show compliance)*.

G. Operational Limitations
"The Operating hours for the six combustion turbines *(only 4 units installed)* combined shall not exceed 12,000 hours per year, on a 12-month rolling cumulative basis." **[Reference: CPCN #8821, Condition #16]**

Note: Based on the installation of four combustion turbines, the allowable aggregate hours of operation cannot exceed 8000 hrs., an average of 2000 hours per combustion turbine.

Compliance Demonstration:
The Permittee shall perform preventative maintenance to maintain the turbine as designed. The Permittee shall record the hours of operation and submit to the Department hours of operation. **[Reference: COMAR 26.11.03.06C]**.

Emission Units: Combustion Turbines (Cont'd)

Cross State Air Pollution Rule (CSAPR)

EU-1 thru EU-4 – Four (4) identical simple cycle mode combustion turbines fueled by natural gas and rated 190 MW at base load, zero degrees ambient temperature. Each turbine operates in simple cycle mode and combusts only pipeline quality natural gas. Each turbine is equipped with dry, low-NO_X burners. (**5-0076 thru 5-0079**)

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 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 SO_2 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).

TR SO_2 Group 1 - Trading Program 40 CFR Part 97 Subpart CCCCC
The Permittee shall comply with the provisions and requirements of §97.601 through §97.635.
Note: §97.606(c) SO_2 emissions requirements. For TR SO_2 Group 1 emissions limitation: As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO_2 Group 1 source and each TR SO_2 Group 1 unit at the source shall hold, in the source's compliance account, TR SO_2 Group 1 allowances available for deduction for such control period under §97.624(a) in an amount not less than the tons of total SO_2 emissions for such control period from all TR SO_2 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 TR SO_2 Group 1 allowance transfer must be submitted for recordation in a TR SO_2 Group 1 source's compliance account in order to be available for use in complying with the source's TR SO_2 Group 1 emissions limitation for such control period in accordance with §§97.606 and 97.624.

TR NO_X Annual Trading Program 40 CFR Part 97 Subpart AAAAA
The Permittee shall comply with the provisions and requirements of §97.401 through §97.435.
Note: §97.406(c) NO_X emissions requirements. For TR 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 TR NO_X Annual source and each TR NO_X Annual unit at the source shall hold, in the source's compliance account, TR

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 TR 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 TR NO_X Annual allowance transfer must be submitted for recordation in a TR NO_X Annual source's compliance account in order to be available for use in complying with the source's TR NO_X Annual emissions limitation for such control period in accordance with §§97.406 and 97.424.

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

Trading Program; and §97.606, §97.630, §97.631, §97.632, and §97.633 and §97.634 for CSAPR SO_2 Group 1 Trading Program.

The Permittee operates a continuous emission monitoring system (CEMS) pursuant to 40 CFR Part 75, Subpart B (for SO_2 monitoring) and 40 CFR Part 75, Subpart H (for NO_X monitoring).

Emission Units: Natural Gas heater

EU-7 – One (1) 9 million Btu/hr. natural gas fuel-fired heater equipped with low NO_X burners. [**6-0205**]

The heater is not subject to the NESHAP requirements of 40 CFR 63, Subpart JJJJJJ because it is natural gas-fired. Gas-fired boilers are exempt from the regulation.

Compliance Status
During the June 8, 2023 full compliance inspection, the heater was not operating. The 2022 ECR stated the run hours for the heater as 589 hrs.

Applicable Standards and limits:

A. Control of Visible Emissions
COMAR 26.11.09.05A(1) – Visible Emissions.
"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 greater than 20 percent opacity.
Exceptions. "Section A (1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, start-up, 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 report incidents of visible emissions in accordance with Section III Condition 4 "Report of Excess Emissions and Deviations".

Rationale for Periodic Monitoring
The heater burns only natural gas, a very clean burning fuel. The heater is designed to operate with no visible emissions. The heater would have to have a

serious malfunction in order for visible emissions to occur. If the Permittee performs preventative maintenance as recommended by the heater manufacturer and supplemented with the facility's maintenance experiences, the heater will continue to operate with no visible emissions and minimize the possibility of malfunctions.

B. Control of Particulate Matter Emissions

CPCN #8821 BACT - For the natural gas-fired heater, BACT shall be the use of natural gas fuel only, operation of low-NO_X burner technology, and application of good combustion controls. In addition, the heater shall be designed to achieve a PM emission rate not to exceed **0.01 lb./MMBtu**.

CPCN #8821, Condition #18 – The gas heater shall be designed to achieve PM emissions not to exceed the following:

PM_{10}	0.09 lb./hr.

Compliance Demonstration:

The Permittee shall perform preventative maintenance to maintain the gas heater as designed and 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 limitation for the heater was placed in the CPCN because the projected emissions of PM from the proposed Rock Springs project exceed the PSD significant level of 15 tons/year. The PM limitation was based upon the vendor guarantees of the design of the heater. The projected PM emissions from the gas heater are 180 pounds per year.

C. Control of Sulfur Oxide Emissions

SO_2 Emissions from the gas heater shall not exceed **0.05 lb./hr**. **[Reference: CPCN #8821, Condition #18]**

Note: This standard was established based upon burning pipeline natural gas, a requirement of the PSD approval.

Compliance Demonstration:

The Permittee shall perform preventative maintenance to maintain the gas heater as designed and 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 Permittee is required to burn pipeline natural gas. The standard is based upon the sulfur content of pipeline natural gas. The Permittee will always comply with the standard when burning pipeline natural gas. The projected sulfur dioxide emissions from the gas heater are 100 pounds per year.

D. Control of Nitrogen Oxide Emissions

LAER & BACT for the natural gas heater shall be the use of natural gas fuel only, operation of advanced dry low-NO_X burner technology, and application of good combustion control. In addition, the heater shall be designed to achieve a NO_X emissions rate not exceed **0.1 lb./MMBtu**. **[Reference: CPCN #8821, Condition #14b(i) #15b]**

CPCN #8821, Condition #18 –The gas heater shall be designed to achieve NO_X emissions not to exceed the following:

NO_X	0.9 lb./hr. and 3.9-tpy on a 12-month rolling cumulative basis

Compliance Demonstration:
The Permittee shall perform preventative maintenance to maintain the gas heater as designed and 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 limitation for the heater was placed in the CPCN because the projected emissions of NO_X from the proposed Rock Springs project exceed the PSD significant level of 40 tons/year and the non-attainment Major New Source Review threshold of 25 tons/year. The NO_X limitation was based upon the vendor guarantees of the design of the heater. The projected NO_X emissions from the gas heater are 1800 pounds per year.

E. Control of Carbon Monoxide Emissions

BACT for the natural gas heater shall be the use of natural gas fuel only, operation of advanced dry low-NO_X burner technology, and application of good combustion control. In addition, the heater shall be designed to achieve a CO emission rate not exceed **0.08 lb./MMBtu**. **[Reference: CPCN #8821, Condition #14b(ii)]**

CPCN #8821, Condition #18 –The gas heater shall be designed to achieve CO emissions not to exceed the following:

CO	0.45 lb./hr.

Compliance Demonstration:

The Permittee shall perform preventative maintenance to maintain the gas heater as designed and 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 limitation for the heater was placed in the CPCN because the projected emissions of CO from the proposed Rock Springs project exceed the PSD significant level of 100 tons/year. The CO limitation was based upon the vendor guarantees of the design of the heater. The projected CO emissions from the gas heater are 900 pounds per year.

F. Control of VOC Emissions

CPCN #8821, Condition #18 –The gas heater shall be designed to achieve VOC emissions not to exceed the following:

VOCs	0.225 lb./hr.

Compliance Demonstration:

The Permittee shall perform preventative maintenance to maintain the gas heater as designed and 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 VOC limitation was based upon the vendor guarantees of the design of the heater. The projected VOC emissions from the gas heater are 1800 pounds per year.

Emission Units: Emergency diesel engine

EU-8: One 200 horsepower (hp) emergency diesel firewater engine used to provide facility fire protection.

Compliance Status
According to the annual compliance certification, the emergency engine run hours read 281.4 hrs. (meter at the time of maintenance; maintenance performed on December 7, 2023, and last run on April 10, 2024, for test.

Applicable Standards and limits:

A. Control of Visible Emissions
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."
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."
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."

Compliance Demonstration:

The Permittee shall: properly operate and maintain the engine; and maintain an operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance performed on the engine pump that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]**.

The Permittee shall report incidents of visible emissions in accordance with Section III Condition 4 "Report of Excess Emissions and Deviations".

B. Control of Particulate Matter Emissions

CPCN #8821, Condition 14c, BACT - For the diesel firewater engine, BACT shall be application of good combustion controls and lean burn technology. In addition, the engine shall be designed to achieve a PM emission rate not to exceed **0.15 g/BHP**.

CPCN #8821, Condition #19 – The engine shall be designed to achieve PM emissions not to exceed the following:

PM_{10}	0.07 lb./hr.

Compliance Demonstration:

The Permittee shall perform preventative maintenance to maintain the engine as designed and 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 limitation for the engine was placed in the CPCN because the projected emissions of PM from the proposed Rock Springs project exceed the PSD significant level of 15 tons/year. The PM limitation was based upon the vendor guarantees of the design of the engine. The projected PM emissions from the engine are 33 pounds per year.

C. Control of Sulfur Oxide Emissions

COMAR 26.11.09.07A(1)(c) – 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: Distillate fuel oils, 0.3 percent."

SO_2 Emissions from the gas heater shall not exceed **0.29 lb./hr**. **[Reference: CPCN #8821, Condition #19]**

Compliance Demonstration:

The Permittee shall obtain fuel suppliers' certification indicating that the gas complies with the limitation on the sulfur content of the gas or obtain sulfur in

fuel analyses of gas that is representative of oil burned. The Permittee shall maintain on site for at least five years documents certifying the sulfur content of gas received or copies of the sulfur in fuel analyses. **[Reference: COMAR 26.11.03.06C]**. The Permittee shall report fuel supplier certifications or sulfur in fuel analyses to the Department upon request **[Reference: COMAR 26.11.09.07C].**

D. Control of Nitrogen Oxide Emissions

LAER & BACT for the emergency diesel firewater engine shall be the application of good combustion controls, lean burn technology, and operation of the unit for a period not to exceed 100 hours per year on a 12-month rolling cumulative basis. In addition, the engine shall be designed to achieve NOx emissions not to exceed 10.5 g/BHP. **[Reference: CPCN #8821, Condition #14c and 15c]**

CPCN #8821, Condition #19 –The engine shall be designed to achieve NO_X emissions not to exceed the following:

NO_X	0.46 lb./hr. and 0.02-tpy on a 12-month rolling cumulative basis

Compliance Demonstration:

The Permittee shall perform preventative maintenance to maintain the engine as designed and 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 limitation for the diesel firewater engine was placed in the CPCN because the projected emissions of NO_X from the proposed Rock Springs project exceed the PSD significant level of 40 tons/year and the non-attainment Major New Source Threshold of 25 tons/year. The NO_X limitation was based upon the vendor guarantees of the design of the engine. The projected NO_X emissions from the engine are 1.2 tons per year.

E. Control of Carbon Monoxide Emissions

BACT for the emergency diesel firewater engine shall be the application of good combustion controls and lean burn technology. In addition, the engine

shall be designed to achieve a CO emission rate not exceed **2.7 g/BHP**. **[Reference: CPCN #8821, Condition #14c]**

CPCN #8821, Condition #19 –The engine shall be designed to achieve CO emissions not to exceed the following:

CO	1.19 lb./hr.

Compliance Demonstration:
The Permittee shall perform preventative maintenance to maintain the engine as designed and 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 limitation for the diesel firewater was placed in the CPCN because the projected emissions of CO from the proposed Rock Springs project exceed the PSD significant level of 100 tons/year. The CO limitation was based upon the vendor guarantees of the design of the engine. The projected CO emissions from the engine are 595 pounds per year.

F. Control of VOC Emissions
CPCN #8821, Condition #19 –The emergency diesel firewater engine shall be designed to achieve VOC emissions not to exceed the following:

VOCs	0.03 lb./hr.

Compliance Demonstration:
The Permittee shall perform preventative maintenance to maintain the engine as designed and 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 VOC limitation was based upon the vendor guarantees of the design of the diesel firewater engine. The projected VOC emissions from the engine are 15 pounds per year.

G. Control of Hazardous Air Pollutants

40 CFR §63.6603(a) – "If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart."

Table 2d, Item 4 – "a. Change oil and filter every 500 hours of operation or annually, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary."

40 CFR §63.6605(a) – "You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times."

40 CFR §63.6605(b) – "At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source."

40 CFR §63.6640(f) – "If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary RICE in emergency situations.
(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

ii. & iii [Reserved]

(3) Not applicable for Area Sources

(4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.

(ii) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The

local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator."

Compliance Demonstration:
The Permittee is required to follow work practice and management standards to maintain the engine and minimize emissions either from the manufacturer's written instructions or a maintenance plan developed by the Permittee. The engine must be operated in a manner consistent with the definition of an emergency engine in 40 CFR §63.6640(f). The engine must be fitted with a non-resettable hour meter if one is not already installed. **[Reference: 40 CFR §63.6625(f)]** Records of all maintenance, malfunctions, and operation of the engine must be kept on site and submit to the Department upon request. **[Reference: 40 CFR §63.6655 & COMAR 26.11.03.06C]**

Emission Units: Emergency diesel engine

EU-9: One (1) 100 kilowatt (kW) emergency diesel switchyard generator.

Compliance Status
According the annual compliance certification, the emergency engine maintenance was conducted on December 8, 2023 @ 24.6 hrs. The last test was completed on April 10, 2024.

Applicable Standards and limits:

A. Control of Visible Emissions
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."
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."
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."

Compliance Demonstration:
The Permittee shall: properly operate and maintain the engine; and maintain an operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance performed on the engine pump that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]**.
The Permittee shall report incidents of visible emissions in accordance with Section III Condition 4 "Report of Excess Emissions and Deviations".

B. Control of Sulfur Oxide Emissions
COMAR 26.11.09.07A(1)(c) – 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: Distillate fuel oils, 0.3 percent."

Compliance Demonstration:
The Permittee shall obtain fuel suppliers' certification indicating that the gas complies with the limitation on the sulfur content of the gas or obtain sulfur in fuel analyses of gas that is representative of oil burned. The Permittee shall maintain on site for at least five years documents certifying the sulfur content of gas received or copies of the sulfur in fuel analyses. **[Reference: COMAR 26.11.03.06C]**. The Permittee shall report fuel supplier certifications or sulfur in fuel analyses to the Department upon request **[Reference: COMAR 26.11.09.07C].**

C. Control of Hazardous Air Pollutants
40 CFR §63.6603(a) – "If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart."
Table 2d, Item 4 – "a. Change oil and filter every 500 hours of operation or annually, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary."

40 CFR §63.6605(a) – "You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times."

40 CFR §63.6605(b) – "At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source."

40 CFR §63.6640(f) – "If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary RICE in emergency situations.

(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

ii. & iii [Reserved].

(3) Not applicable for Area Sources

(4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.

(ii) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator."

Compliance Demonstration:

The Permittee is required to follow work practice and management standards to maintain the engine and minimize emissions either from the manufacturer's written instructions or a maintenance plan developed by the Permittee. The engine must be operated in a manner consistent with the definition of an emergency engine in 40 CFR §63.6640(f). The engine must be fitted with a non-resettable hour meter if one is not already installed. **[Reference: 40 CFR §63.6625(f)]** Records of all maintenance, malfunctions, and operation of the

engine must be kept on site and submit to the Department upon request.
[Reference: 40 CFR §63.6655 & COMAR 26.11.03.06C]

Emission Units: Natural Gas heater

EU-10 – One (1) 7.5 million Btu/hr. natural gas fuel-fired heater equipped with low NO_X burners. [**015-0202-5-0148**]

A request for coverage for an Air Quality General Permit to Construct for Small Fuel Burning (Boiler/Heater) Equipment was issued November 16, 2017. This heater will be used as a backup to the existing heater.

A letter was sent to the PSC dated October 26, 2017 informing of the installation of the backup heater. An operational gas heater is an integral part of the operation because the four (4) GE 7FA combustion turbines cannot operate without a gas heater to condition the incoming natural gas. The backup gas heater is being installed to minimize the risk of facility downtime. The existing heater and the backup heater will not run concurrently during electrical generation, so there will be no emission increase.

The heater is not subject to the NESHAP requirements of 40 CFR 63, Subpart JJJJJJ because it is natural gas-fired. Gas-fired boilers are exempt from the regulation.

Applicable Standards and limits:

A. Control of Visible Emissions
COMAR 26.11.09.05A(1) – Visible Emissions.
"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 greater than 20 percent opacity.
Exceptions. "Section A (1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, start-up, 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 report incidents of visible emissions in accordance with Section III Condition 4 "Report of Excess Emissions and Deviations".

Rationale for Periodic Monitoring
The heater burns only natural gas, a very clean burning fuel. The heater is designed to operate with no visible emissions. The heater would have to have a serious malfunction in order for visible emissions to occur. If the Permittee performs preventative maintenance as recommended by the heater manufacturer and supplemented with the facility's maintenance experiences, the heater will continue to operate with no visible emissions and minimize the possibility of malfunctions.

B. Control of Nitrogen Oxide Emissions
COMAR 26.11.09.08B(5) - Operator Training.
(a) "For purposes of this regulation, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation.
(b) The operator training course sponsored by the Department shall include an in-house training course that is approved by the Department."
COMAR 26.11.09.08E. - Requirements for Fuel-Burning Equipment with a Rated Heat Input Capacity of 100 Million Btu Per Hour or Less. "A person who owns or operates fuel-burning equipment with a rated heat input capacity of 100 Million Btu per hour or less shall:
(1) Submit to the Department an identification of each affected installation, the rated heat input capacity of each installation, and the type of fuel burned in each;
(2) Perform a combustion analysis for each installation at least once each year and optimize combustion based on the analysis;
(3) Maintain the results of the combustion analysis at the site for at least 2 years and make this data available to the Department and the EPA upon request;
(4) Once every 3 years, require each operator of the installation to attend operator training programs on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and
(5) Prepare and maintain a record of training program attendance for each operator at the site, and make these records available to the Department upon request."

Compliance Demonstration:
The Permittee shall perform combustion analysis on the heaters and boilers at least once per year and optimize combustion based on the analysis.
[Reference: COMAR 26.11.09.08E(2)]
The Permittee shall maintain the following records on-site for a period of at least five years:
(1) Training program attendance for each operator at the site and make these records available to the Department upon request.

(2) Results of combustion analysis.
[Reference: COMAR 26.11.09.09E(3)&(5)]
The Permittee shall submit:
(1) The results of combustion analysis to the department and the EPA upon request. **[Reference: COMAR 26.11.09.08E(3)]**
(2) A record of training program attendance for each operator to the Department upon request. **[Reference: COMAR 26.11.09.08E(5)].**

COMPLIANCE SCHEDULE

Rock Springs Generation Facility is currently in compliance with all applicable air quality regulations.

TITLE IV – ACID RAIN

Rock Springs Generation Facility 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

Rock Springs Generation Facility is not subject to Title VI requirements.

SECTION 112(r) – ACCIDENTAL RELEASE

Rock Springs Generation Facility is not subject to the requirements of Section 112(r).

PERMIT SHIELD

The Rock Springs Generation 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.

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) ✓ Space heaters utilizing direct heat transfer and used solely for comfort heat;

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

(a) ✓ Storage of butane, propane, or liquefied petroleum, or natural gas;

(b) No. ✓ Storage of lubricating oils;

(c) No. 2 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;

(3) ✓ Potable water treatment equipment, not including air stripping equipment;

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

STATE ONLY ENFORCEABLE REQUIREMENTS

This section of the permit contains state-only enforceable requirements. The requirements in this section will not be enforced by the U.S. Environmental Protection Agency. The requirements in this section are not subject to COMAR 26.11.03 10 - Public Petitions for Review to EPA Regarding Part 70 Permits.

Applicable Regulations:

(A) 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."

(B) 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."

ROCK SPRINGS GENERATION FACILITY
1423 ROCK SPRINGS ROAD
RISING SUN, MARYLAND 21911
DRAFT PART 70 OPERATING PERMIT NO. 24-015-0202

ATTACHMENTS:

Acid Rain Permit

CO2 Budget Permit

SECTION I SOURCE IDENTIFICATION

1. DESCRIPTION OF FACILITY

The Rock Springs Generation Facility, located at 1423 Rock Springs Road in Rising Sun, Maryland 21911 (Cecil County), is a simple-cycle natural gas-fired power generation plant. Its applicable Standard Industrial Classification (SIC) Code is 4911-Electric Services.

The facility is permitted for six (6) General Electric 7 FA gas turbines, each rated 190 MW at base load, zero degrees ambient temperature. Each turbine operates in simple cycle mode and combusts only pipeline quality natural gas. Each turbine is equipped with dry, low-NO_X burners. All four turbines (EU 1-4) are limited to a combined 8,000 hours of operation per year, based on a cumulative 12-month rolling average.

Four of the six turbines were installed in October 2001, and the remaining two (EU-5 and EU-6) were never installed. Each of the four operating combustion turbines is equipped with a single discharge stack.

The plant also includes two (2) [7.5 & 9.0] million British Thermal Units per hour (MMBtu/hr.) natural gas-fired heaters, one (1) 200 horsepower (hp) emergency diesel firewater pump and one (1) 4-stroke cycle, 6-cylinder switchyard diesel-fired emergency generator.

2. FACILITY INVENTORY LIST

Emissions Unit Number	MDE - ARA Registration Number	Emissions Unit Name and Description	Date of Installation
EU-1	5-0076	Four (4) General Electric 7 FA gas turbines, each with a maximum output of 190 MW	October 2001
EU-2	5-0077		
EU-3	5-0078		
EU-4	5-0079		
EU-7	6-0205	One (1) 9 million Btu per hour natural gas fired heater equipped with low NO_X burners.	2001
EU-8	N/A	One (1) 200 horsepower (hp) emergency diesel fire-water engine and pump.	September 2002
EU-9	N/A	One (1) 100-kilowatt (kW) emergency diesel switchyard generator.	September 2002

Emissions Unit Number	MDE - ARA Registration Number	Emissions Unit Name and Description	Date of Installation
EU-10	015-0202-5-0148	One (1) 7.5 million Btu per hour natural gas fired heater equipped with low NO_X burners.	November 2017

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
PM10	Particulate Matter with Nominal Aerodynamic Diameter of 10 micrometers or less
ppm	parts per million
ppb	parts per billion
PSD	Prevention of Significant Deterioration
PTC	Permit to construct
PTO	Permit to operate (State)
SIC	Standard Industrial Classification
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 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;

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.

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, 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:

(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

(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.

(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;

(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.

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:

(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;

(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.

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;

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.

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

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

d. Any combination of these actions.

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

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

25. CREDIBLE EVIDENCE

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

26. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE

[COMAR 26.11.03.06E(2)]

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

27. CIRCUMVENTION

[COMAR 26.11.01.06]

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

28. PERMIT SHIELD

[COMAR 26.11.03.23]

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

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:

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 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)

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:

(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.

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

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.

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 renewal Phase II Acid Rain Permit is attached as Appendix A. The Permittee shall comply with all applicable requirements contained in the Phase II Acid Rain Permit.

SECTION IV PLANT SPECIFIC CONDITIONS

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

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

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

Table IV – 1	
1.0	**Emissions Unit Number(s) - Combustion Turbines** **EU-1 thru EU-4** – Four (4) identical simple cycle mode combustion turbines fueled by natural gas and rated 190 MW at base load, zero degrees ambient temperature. Each turbine operates in simple cycle mode and combusts only pipeline quality natural gas. Each turbine is equipped with dry, low-NO_X burners. (**5-0076 thru 5-0079**)
1.1	**Applicable Standards/Limits:** A. Control of Visible Emissions **COMAR 26.11.09.05A(1)–Fuel Burning Equipment.** "In Areas, I, II, V, and VI, 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 greater than 20 percent opacity." Exceptions. "Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, start-up, 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 sixty consecutive minute period."

Table IV – 1	
	B. Control of Particulate Matter Emissions Concentration of PM_{10} shall not exceed 18 lb./hr. for each turbine and shall not exceed 134.5 tpy for all six combustion turbines *(only 4 units installed)* combined on a 12-month rolling cumulative basis. **[Reference: CPCN #8821, Condition #14(a)(iii) & #17].** C. Control of Sulfur Oxide Emissions **40 CFR 60.333** – **NSPS Subpart GG,** which limits sulfur content in any fuel burned in a gas turbine to 0.8 wt %. "SO_2 emissions shall not exceed 2.5 lb./hr. for each combustion turbine, and 15 tpy for all six combustion turbines *(only 4 units installed)* combined in on a 12-month rolling cumulative basis." **[Reference: CPCN #8821, Condition #17]** **Note:** Compliance with these limitations will be by the use of fuel supplier certifications. Phase II Acid Rain Permit: The Permittee shall comply with the requirements of the Phase II Acid Rain Permit. (See Appendix A) Cross-State Air Pollution Rule See Table IV-1a.- Cross State Air Pollution Rule (CSAPR) D-Control of Nitrogen Oxide Emissions **40 CFR 60.332 – NSPS Subpart GG,** which limits each turbine to 75 parts per million by volume on dry basis (ppmvd) NO_X emissions at 15% O_2. **BACT shall be the use of natural gas fuel only, operation of advanced dry low-NO_X burner technology, and application of good combustion practices so that: "**Concentrations of NO_X shall not exceed 9 ppmvd at 15% oxygen on a 30-day rolling average basis for each combustion turbine and the maximum one-hour average NO_X concentrations shall not exceed 10.5 ppmvd at 15% oxygen for each combustion turbine." **[Reference: CPCN #8821, Condition 14(a)(i)]** **Note:** Compliance shall be demonstrated by use of CEM. "LAER for NO_X shall be the use of natural gas only, operation of advanced dry low-NO_X burner technology, and application of good combustion practices. Concentrations of NO_X shall not exceed 9 ppmvd at 15% oxygen on a 30-day rolling average basis (except during startup and shutdown) for each combustion turbine. Maximum 1-hour average (except during startup and shutdown) shall not exceed 10.5 ppmvd at

Table IV – 1	
	15% oxygen. NO_X emissions shall not exceed 64 lb./hr. per turbine and 384 tons per year for all six turbines *(only 4 units installed)* combined on a 12-month rolling cumulative basis." **[Reference: CPCN #8821, Condition #14a(i), 15, 17a & MDE April 29, 2003, Letter]** **Note:** Compliance shall be demonstrated by use of CEM Cross-State Air Pollution Rule See Table IV-1a.- CSAPR. E Control of VOC Emissions VOC emissions shall not exceed 3 lb./hr. for each combustion turbine, and 18 tpy for all six combustion turbines *(only 4 units installed)* combined in on a 12-month rolling cumulative basis. [**Reference: CPCN #8821, Condition #17]** F Control of Carbon Monoxide Emissions **"BACT for CO shall be good combustion practices.** Concentration of CO shall not exceed 9 ppmvd at 15% oxygen for each combustion turbine on a 30-day rolling average basis for each combustion turbine. Emissions of CO shall not exceed 32 lb./hr. (except during startup and shutdown) from each combustion turbine and 192 tons per year for all six combustion turbines *(only 4 units installed)* combined on a 12-month rolling cumulative basis." **[Reference: CPCN #8821, Condition #14(a)(ii), 17 & MDE April 29, 2003, Letter].** G Operational Limitations "The Operating hours for the six combustion turbines *(only 4 units installed)* combined shall not exceed 12,000 hours per year, on a 12-month rolling cumulative basis." **[Reference: CPCN #8821, Condition #16]** **Note:** In addition, based on the installation of four combustion turbines, the allowable aggregate hours of operation cannot exceed 8000 hrs., an average of 2000 hours per combustion turbine.
1.2	**Testing Requirements:** A. Control of Visible Emissions See Reporting Requirements. B. Control of Particulate Matter Emissions The Permittee shall stack test one of the four identical units at least once during the life of the permit. The Permittee shall submit a test protocol to

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	the Department for approval at least 30 days prior to the proposed test date. **[Reference: COMAR 26.11.03.06C]** C. Control of Sulfur Oxide Emissions See Monitoring Requirements. D. Control of Nitrogen Oxide Emissions The Permittee shall perform QC/QA procedures as required by 40 CFR 75.10(a)(2). **[Reference: COMAR 26.11.03.06C]** E. Control of VOC Emissions The Permittee shall stack test one of the four identical units at least once during the life of the permit. 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]** F. Control of Carbon Monoxide Emissions The Permittee shall perform QC/QA procedures as required by 40 CFR 60, Appendix F **[Reference: COMAR 26.11.03.06C]** G. Operational Limitations See Monitoring Requirements.
1.3	**Monitoring Requirements:** A. Control of Visible Emissions See Reporting Requirements. B. Control of Particulate Matter Emissions The Permittee shall perform preventative maintenance to maintain the turbine in a condition such that it operates as designed. **[Reference: COMAR 26.11.03.06C]** C. Control of Sulfur Oxide Emissions The Permittee shall monitor the sulfur content and nitrogen content of the fuel being burned in the turbine. The frequency of determination of these values shall be as follows: (1) If the turbine is supplied its fuel from a bulk storage tank, the value shall be determined on each occasion that fuel is transferred to the storage tank from any other source. (2) If the turbine is supplied fuel without intermediate bulk storage the values shall be determined and recorded daily. The Permittee may develop custom schedules for determination of values based on

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	design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Administrator before they can be used to comply with paragraph (b) of this section. **[Reference: 40 CFR 60.334(b)]** D. Control of Nitrogen Oxide Emissions The Permittee shall operate, calibrate and maintain a CEMS to monitor the NO_X emissions from each turbine. **[Reference: CPCN #8821, Condition #9(o)]**. The Permittee shall certify the CEM system in accordance with 40 CFR 75, Appendix A. **[Reference: 40 CFR §75.70]** **40 CFR 60.334(a) - NSPS Subpart GG,** which requires any stationary turbine using water injection to control NO_X emissions to install and operate a Continuous Emissions Monitoring system to monitor and record the fuel being fired and the consumption and the ratio of water to fuel being fired in the turbine (and shall be accurate to within +/- 5.0% and shall be approved by the Administrator). **40 CFR 60.334(b) - NSPS Subpart GG** which requires the Permittee to monitor the nitrogen content of the fuel. (See Condition C above) E. Control of VOC Emissions The Permittee shall perform preventative maintenance to maintain the turbine in a condition such that it operates as designed. **[Reference: COMAR 26.11.03.06C]** F. Control of Carbon Monoxide Emissions The Permittee shall use a CEM to monitor CO emissions. **[Reference: COMAR 26.11.03.06C]** G. Operational Limitations The Permittee shall perform preventative maintenance to maintain the turbine as designed. **[Reference: COMAR 26.11.03.06C]**
1.4	**Record Keeping Requirements:** A. Control of Visible Emissions See Reporting Requirements. B. Control of Particulate Matter Emissions The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance and records of the stack test results. **[Reference: COMAR 26.11.03.06C]**

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	C. Control of Sulfur Oxide Emissions The Permittee shall maintain on site for at least five years documents certifying the sulfur content of gas received or copies of the sulfur in fuel analyses. **[Reference: COMAR 26.11.03.06C]** D. Control of Nitrogen Oxide Emissions The Permittee shall maintain records necessary to prepare quarterly emissions reports that contain the requirements of COMAR 26.11.01.10G(2)(d). [**Reference: COMAR 26.11.03.06C**]. E. Control of VOC Emissions The Permittee shall maintain for at least five years records of the preventive maintenance that relates to combustion performance and records of the stack test results. **[Reference: COMAR 26.11.03.06C]** F. Control of Carbon Monoxide Emissions The Permittee shall maintain records of the CO CEMs data. [**Reference: COMAR 26.11.03.06C**] G. Operational Limitations The Permittee shall record the hours of operation. **[Reference: COMAR 26.11.03.06C]**
1.5	**Reporting Requirements:** A. Control of Visible Emissions The Permittee shall report incidents of visible emissions in accordance with Section III Condition 4 “Report of Excess Emissions and Deviations”. B. Control of Particulate Matter Emissions The Permittee shall submit records of maintenance to the Department upon request. The Permittee shall submit the results of any stack tests within 45 days after completion of the stack test. **[Reference: COMAR 26.11.03.06C]** C. Control of Sulfur Oxide Emissions For the purpose of reports required under §60.7(c), periods of excess emissions are any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent. The Permittee shall submit a summary report of excess emissions semiannually. All reports shall be postmarked by the 30th day following the end of each six-month period. **[Reference: 40CFR 60.334(c) and 60.7(c)]**

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	D. Control of Nitrogen Oxide Emissions The Permittee shall submit a quarterly summary report to the Department not later than 30 days following each calendar quarter. The report shall be in a format approved by the Department, and shall include the following: (1) The cause, time periods, and magnitude of all emissions which exceed the applicable emission standards; (2) The source downtime including the time and date of the beginning and end of each downtime period and whether the source downtime was planned or unplanned; (3) The time periods and cause of all CEM downtime including records of any repairs, adjustments, or maintenance that may affect the validity of emission data; (4) Quarterly totals of excess emissions, installation downtime, and CEM downtime during the calendar quarter; (5) Quarterly quality assurance activities; and (6) Daily calibration activities that include reference values, actual values, absolute or percent of span differences, and drift status; and (7) Other information required by the Department that is determined to be necessary to evaluate the data, to ensure that compliance is achieved, or to determine the applicability of this regulation. **[Reference: COMAR 26.11.09.08K(1) and COMAR 26.11.01.10G(2)(d)]** E. Control of VOC Emissions The Permittee shall submit records of maintenance to the Department upon request. The Permittee shall submit the results of any stack tests within 45 days after completion of the stack test. **[Reference: COMAR 26.11.03.06C]** F. Control of Carbon Monoxide Emissions The Permittee shall submit quarterly, the summaries of valid CEMs data for CO concentrations. The quarterly summary reports shall satisfy the reporting requirements of COMAR 26.11.01.10G(2)(d). **[Reference: COMAR 26.11.03.06C]** G. Operational Limitations The Permittee shall submit to the Department the hours of operation. **[Reference: COMAR 26.11.03.06C]**.

A permit shield shall cover the applicable requirements of the Clean Air Act that are listed in the table above.

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1a.0	**Emissions Unit Number(s): Combustion Turbines (Cont'd).** **EU-1 thru EU-4** – Four (4) identical simple cycle mode combustion turbines fueled by natural gas and rated 190 MW at base load, zero degrees ambient temperature. Each turbine operates in simple cycle mode and combusts only pipeline quality natural gas. Each turbine is equipped with dry, low-NO_X burners. (**5-0076 thru 5-0079**)
1a.1	**Applicable Standards/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 3 Trading Program set forth in 40 CFR Part 97, Subpart EEEEE, as published July 1, 2017, and associated reference methods, performance specifications and other test methods referenced by these standards, as applicable to existing and new units in Maryland, except the provisions at 40 CFR §§97.811(b)(2) and (c)(5)(iii), 97.812(b), and 97.821(h) and (j). (***This is superseded by Group 3 Subpart GGGGG published April 30, 2021, effective June 29, 2021***). (3) This chapter incorporates by reference provisions of the CSAPR SO_2 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

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	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 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

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

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	(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 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.

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	(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. (**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

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	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 State implementation plan, a federally enforceable permit, or the Clean Air Act." **B. 40 CFR Part 97 Subpart CCCCC—CSAPR SO_2 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 SO_2 Group 1 source and each CSAPR SO_2 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 SO_2 Group 1 allowances under §§97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO_2 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

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	97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero. (**c**) ***SO_2 emissions requirements***—(1) *SO_2 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 SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO_2 Group 1 allowances available for deduction for such control period under §97.624(a) in an amount not less than the tons of total SO_2 emissions for such control period from all CSAPR SO_2 Group 1 units at the source. (ii) If total SO_2 emissions during a control period in a given year from the CSAPR SO_2 Group 1 units at a CSAPR SO_2 Group 1 source are in excess of the CSAPR SO_2 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 SO_2 Group 1 unit at the source shall hold the CSAPR SO_2 Group 1 allowances required for deduction under §97.624(d); and (B) The owners and operators of the source and each CSAPR SO_2 Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (2) *SO_2 Group 1 assurance provisions.* (i) If total SO_2 emissions during a control period in a given year from all CSAPR SO_2 Group 1 units at CSAPR SO_2 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 SO_2 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 SO_2 Group 1 allowances available for deduction for such control period under §97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with §97.625(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such SO_2 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

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	such State) for such control period, by which each common designated representative's share of such SO_2 emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level. (ii) The owners and operators shall hold the CSAPR SO_2 Group 1 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period. (iii) Total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 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 SO_2 emissions exceed the sum, for such control period, of the State SO_2 Group 1 trading budget under §97.610(a) and the State's variability limit under §97.610(b). (iv) It shall not be a violation of this subpart or of the Clean Air Act if total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 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 SO_2 emissions from the CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level. (v) To the extent the owners and operators fail to hold CSAPR SO_2 Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section, (A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and (B) Each CSAPR SO_2 Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (3) *Compliance periods.* (i) A CSAPR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under §97.630(b) and for each control period thereafter. (ii) A CSAPR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later

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	of January 1, 2017, or the deadline for meeting the unit's monitor certification requirements under §97.630(b) and for each control period thereafter. (4) *Vintage of CSAPR SO_2 Group 1 allowances held for compliance.* (i) A CSAPR SO_2 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 SO_2 Group 1 allowance that was allocated or auctioned for such control period or a control period in a prior year. (ii) A CSAPR SO_2 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 SO_2 Group 1 allowance that was allocated or auctioned for a control period in a prior year or the control period in the given year or in the immediately following year. (5) *Allowance Management System requirements.* Each CSAPR SO_2 Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart. (6) *Limited authorization.* A CSAPR SO_2 Group 1 allowance is a limited authorization to emit one ton of SO_2 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 SO_2 Group 1 Trading Program; and (ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act. (7) *Property right.* A CSAPR SO_2 Group 1 allowance does not constitute a property right. (**d**) ***Title V permit requirements.*** (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR SO_2 Group 1 allowances in accordance with this subpart. (2) A description of whether a unit is required to monitor and report SO_2 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

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	reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter. (**e**) ***Additional recordkeeping and reporting requirements***. (1) Unless otherwise provided, the owners and operators of each CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator. (i) The certificate of representation under §97.616 for the designated representative for the source and each CSAPR SO_2 Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under §97.616 changing the designated representative. (ii) All emissions monitoring information, in accordance with this subpart. (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR SO_2 Group 1 Trading Program. (2) The designated representative of a CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall make all submissions required under the CSAPR SO_2 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 SO_2 Group 1 Trading Program that applies to a CSAPR SO_2 Group 1 source or the designated representative of a CSAPR SO_2 Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO_2 Group 1 units at the source. (2) Any provision of the CSAPR SO_2 Group 1 Trading Program that applies to a CSAPR SO_2 Group 1 unit or the designated representative of a CSAPR SO_2 Group 1 unit shall also apply to the owners and operators of such unit. (**g**) ***Effect on other authorities***. No provision of the CSAPR SO_2 Group 1 Trading Program or exemption under §97.605 shall be construed as

Table IV–1a: Cross State Air Pollution Rule (CSAPR)	
	exempting or excluding the owners and operators, and the designated representative, of a CSAPR SO_2 Group 1 source or CSAPR SO_2 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. (**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.

Table IV–1a: Cross State Air Pollution Rule (CSAPR)	
	(ii) If total NO_X emissions during a control period in a given year from the CSAPR NO_X Ozone Season Group 3 units at a CSAPR NO_X Ozone Season Group 3 source are in excess of the CSAPR NO_X Ozone Season Group 3 emissions limitation set forth in paragraph (c)(1)(i) of this section, then: (A) The owners and operators of the source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall hold the CSAPR NO_X Ozone Season Group 3 allowances required for deduction under §97.1024(d); and (B) The owners and operators of the source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (2) *CSAPR NO_X Ozone Season Group 3 assurance provisions.* (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 - (A) The quotient of the amount by which the common designated representative's share of such NO_X emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such NO_X emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_X emissions from all base CSAPR NO_X Ozone Season Group 3 units at base CSAPR NO_X Ozone Season Group 3 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level.

Table IV–1a: Cross State Air Pollution Rule (CSAPR)	
	(ii) The owners and operators shall hold the CSAPR NO_X Ozone Season Group 3 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period. (iii) Total NO_X emissions from all base CSAPR NO_X Ozone Season Group 3 units at base CSAPR NO_X Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total NO_X emissions exceed the sum, for such control period, of the State NO_X Ozone Season Group 3 trading budget under §97.1010(a), the State's variability limit under §97.1010(b), and, for the control period in 2021 only, the product (rounded to the nearest allowance) of 1.21 multiplied by the supplemental amount of CSAPR NO_X Ozone Season Group 3 allowances determined for the State under §97.1010(d). (iv) It shall not be a violation of this subpart or of the Clean Air Act if total NO_X emissions from all base CSAPR NO_X Ozone Season Group 3 units at base CSAPR NO_X Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total NO_X emissions from the base CSAPR NO_X Ozone Season Group 3 units at base CSAPR NO_X Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level. (v) To the extent the owners and operators fail to hold CSAPR NO_X Ozone Season Group 3 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section: (A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and (B) Each CSAPR NO_X Ozone Season Group 3 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act. (3) *Compliance periods.* (i) A CSAPR NO_X Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of May 1, 2021, or the deadline for meeting the unit's monitor certification requirements under §97.1030(b) and for each control period thereafter. (ii) A base CSAPR NO_X Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control

Table IV–1a: Cross State Air Pollution Rule (CSAPR)	
	period starting on the later of May 1, 2021, or the deadline for meeting the unit's monitor certification requirements under §97.1030(b) and for each control period thereafter. (4) *Vintage of CSAPR NO_X Ozone Season Group 3 allowances held for compliance.* (i) A CSAPR NO_X Ozone Season Group 3 allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a CSAPR NO_X Ozone Season Group 3 allowance that was allocated or auctioned for such control period or a control period in a prior year. (ii) A CSAPR NO_X Ozone Season Group 3 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (c)(2)(i) through (iii) of this section for a control period in a given year must be a CSAPR NO_X Ozone Season Group 3 allowance that was allocated or auctioned for a control period in a prior year or the control period in the given year or in the immediately following year. (5) *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

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	changed in, a title V permit using minor permit modification procedures in accordance with §§70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter. (**e**) ***Additional recordkeeping and reporting requirements.*** (1) Unless otherwise provided, the owners and operators of each CSAPR NO_X Ozone Season Group 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.

Table IV–1a: Cross State Air Pollution Rule (CSAPR)	
	(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 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.
1a.2	**Testing Requirements:** **A, B** & **C**: See Monitoring Requirements.
1a.3	**Monitoring Requirements:** **A. 40 CFR Part 97 Subpart AAAAA—CSAPR NO_X Annual Trading Program** The Permittee shall comply with the monitoring requirements found in §97.406, §97.430, and §97.434 for the NO_X Annual Trading Program. **B. 40 CFR Part 97 Subpart CCCCC—CSAPR SO_2 Group 1 Trading Program** The Permittee shall comply with the monitoring requirements found in §97.606, §97.630, §97.631, §97.632, and §97.633. The Permittee operates a continuous emission monitoring system (CEMS) pursuant to 40 CFR Part 75, Subpart B (for SO_2 monitoring) and 40 CFR Part 75, Subpart H (for NO_X monitoring). **C. 40 CFR Part 97 Subpart GGGGG—CSAPR NO_X Ozone Season Group 3 Trading Program** The Permittee shall comply with the monitoring requirements found in §97.1006; §97.1030; §97.1031, §97.1032, and §97.1033 for the NO_X Ozone Season Group 3 Trading Program.

Table IV–1a: Cross State Air Pollution Rule (CSAPR)	
1a.4	**Record Keeping Requirements:** **Note:** All records must be maintained for a period of at least 5 years. **[Reference: COMAR 26.11.03.06C(5)(g)]** **A. 40 CFR Part 97 Subpart AAAAA—CSAPR NO_X Annual Trading Program** The Permittee shall comply with the recordkeeping requirements found in §97.406, §97.430, and §97.434 for the NO_X Annual Trading Program. **B. 40 CFR Part 97 Subpart CCCCC—CSAPR SO_2 Group 1 Trading Program** The Permittee shall comply with the recordkeeping requirements found in §97.606, §97.630, and §97.634. **C. 40 CFR Part 97 Subpart GGGGG—CSAPR NO_X Ozone Season Group 3 Trading Program** The Permittee shall comply with the recordkeeping requirements found in §97.1006; §97.1030 and §97.1034 for the NO_X Ozone Season Group 3 Trading Program.
1a.5	**Reporting Requirements:** **A. 40 CFR Part 97 Subpart AAAAA—CSAPR NO_X Annual Trading Program** The Permittee shall comply with the reporting requirements found in §97.406, §97.430, §97.433 and §97.434 for the NO_X Annual Trading Program. **B. 40 CFR Part 97 Subpart CCCCC—CSAPR SO_2 Group 1 Trading Program** The Permittee shall comply with the reporting requirements found in §97.606, §97.630, §97.633 and §97.634. **C. 40 CFR Part 97 Subpart GGGGG—CSAPR NO_X Ozone Season Group 3 Trading Program** The Permittee shall comply with the reporting requirements found in §97.1006; §97.1030 and §97.1034 for the NO_X Ozone Season Group 3 Trading Program.

A permit shield shall cover the applicable requirements of the Clean Air Act that are listed in the table above.

Table IV – 2

2.0 **Emissions Unit Number(s) - Natural Gas heater**

EU-7 – One (1) 9 million Btu/hr. natural gas fuel-fired heater equipped with low NO_X burners. [**6-0205**]

2.1 **Applicable Standards/Limits:**

A. Control of Visible Emissions
COMAR 26.11.09.05A(1) – Visible Emissions.
"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 greater than 20 percent opacity.
Exceptions. "Section A (1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, start-up, or adjustments or occasional cleaning of control equipment if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty-minute period."

B. Control of Particulate Matter Emissions
CPCN #8821 BACT - For the natural gas-fired heater, BACT shall be the use of natural gas fuel only, operation of low-NO_X burner technology, and application of good combustion controls. In addition, the heater shall be designed to achieve a PM emission rate not to exceed **0.01 lb./MMBtu**.

CPCN #8821, Condition #18 – The gas heater shall be designed to achieve PM emissions not to exceed the following:

PM10	0.09 lb./hr.

C. Control of Sulfur Oxide Emissions
SO_2 Emissions from the gas heater shall not exceed **0.05 lb./hr**.
[Reference: CPCN #8821, Condition #18]

D. Control of Nitrogen Oxide Emissions
LAER & BACT for the natural gas heater shall be the use of natural gas fuel only, operation of advanced dry low-NO_X burner technology, and application of good combustion control. In addition, the heater shall be designed to achieve a NO_X emissions rate not exceed **0.1 lb./MMBtu**. **[Reference: CPCN #8821, Condition #14b(i) #15b]**

Table IV – 2

CPCN #8821, Condition #18 –The gas heater shall be designed to achieve NO_X emissions not to exceed the following:

NO_X	0.9 lb./hr. and 3.9 tpy on a 12-month rolling cumulative basis

E. Control of Carbon Monoxide Emissions
BACT for the natural gas heater shall be the use of natural gas fuel only, operation of advanced dry low-NO_X burner technology, and application of good combustion control. In addition, the heater shall be designed to achieve a CO emission rate not exceed **0.08 lb./MMBtu**. **[Reference: CPCN #8821, Condition #14b(ii)]**

CPCN #8821, Condition #18 –The gas heater shall be designed to achieve CO emissions not to exceed the following:

CO	0.45 lb./hr.

F. Control of VOC Emissions
CPCN #8821, Condition #18 –The gas heater shall be designed to achieve VOC emissions not to exceed the following:

VOCs	0.225 lb./hr.

2.2 Testing Requirements:

A. Control of Visible Emissions
See Reporting Requirements.

B. Control of Particulate Matter Emissions
See Monitoring Requirements.

C. Control of Sulfur Oxide Emissions
See Monitoring Requirements.

D. Control of Nitrogen Oxide Emissions
See Monitoring Requirements.

E. Control of Carbon Monoxide Emissions
See Monitoring Requirements.

G. Control of VOC Emissions
See Monitoring Requirements.

2.3 Monitoring Requirements:

Table IV – 2	
	A. Control of Visible Emissions See Reporting Requirements. B. Control of Particulate Matter Emissions The Permittee shall perform preventative maintenance to maintain the gas heater as designed. **[Reference: COMAR 26.11.03.06C]** C. Control of Sulfur Oxide Emissions The Permittee shall perform preventative maintenance to maintain the gas heater as designed. **[Reference: COMAR 26.11.03.06C]** D. Control of Nitrogen Oxide Emissions The Permittee shall perform preventative maintenance to maintain the gas heater as designed. **[Reference: COMAR 26.11.03.06C]** E. Control of Carbon Monoxide Emissions The Permittee shall perform preventative maintenance to maintain the gas heater as designed. **[Reference: COMAR 26.11.03.06C]** F. Control of VOC Emissions The Permittee shall perform preventative maintenance to maintain the gas heater as designed. **[Reference: COMAR 26.11.03.06C]**
2.4	**Record Keeping Requirements:** A. Control of Visible Emissions See Reporting Requirements. B. Control of Particulate Matter Emissions The Permittee shall maintain for at least five years records of preventive maintenance that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]**. C. Control of Sulfur Oxide Emissions The Permittee shall maintain for at least five years records of preventive maintenance that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]** D. Control of Nitrogen Oxide Emissions The Permittee shall maintain for at least five years records of preventive maintenance that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]** E. Control of Carbon Monoxide Emissions

Table IV – 2	
	The Permittee shall maintain for at least five years records of preventive maintenance that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]** F. Control of VOC Emissions The Permittee shall maintain for at least five years records of preventive maintenance that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]**
2.5	**Reporting Requirements:** A. Control of Visible Emissions The Permittee shall report incidents of visible emissions in accordance with Section III Condition 4 "Report of Excess Emissions and Deviations". B. Control of Particulate Matter Emissions The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]** C. Control of Sulfur Oxide Emissions The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]** D. Control of Nitrogen Oxide Emissions The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]** E. Control of Carbon Monoxide Emissions The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]** F. Control of VOC Emissions The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]**

A permit shield shall cover the applicable requirements of the Clean Air Act that are listed in the table above.

Table IV – 3

3.0 **Emissions Unit Number(s) - Emergency diesel engine**

EU-8: One 200 horsepower (hp) emergency diesel firewater engine.

3.1 **Applicable Standards/Limits:**

A. Control of Visible Emissions

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."

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."

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."

B. Control of Particulate Matter Emissions

CPCN #8821, Condition 14c, BACT - For the diesel firewater engine, BACT shall be application of good combustion controls and lean burn technology. In addition, the engine shall be designed to achieve a PM emission rate not to exceed **0.15 g/BHP**.

CPCN #8821, Condition #19 – The engine shall be designed to achieve PM emissions not to exceed the following:

PM10	0.07 lb./hr.

C. Control of Sulfur Oxide Emissions

COMAR 26.11.09.07A(1)(c) – 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: Distillate fuel oils, 0.3 percent."

Table IV – 3

SO_2 Emissions from the gas heater shall not exceed **0.29 lb/hr**.
[Reference: CPCN #8821, Condition #19]

D. Control of Nitrogen Oxide Emissions

LAER & BACT for the emergency diesel firewater engine shall be the application of good combustion controls, lean burn technology, and operation of the unit for a period not to exceed 100 hours per year on a 12-month rolling cumulative basis. In addition, the engine shall be designed to achieve NOx emissions not to exceed 10.5 g/BHP.
[Reference: CPCN #8821, Condition #14c and 15c]

CPCN #8821, Condition #19 –The engine shall be designed to achieve NO_X emissions not to exceed the following:

NO_X	0.46 lb./hr. and 0.02 tpy on a 12-month rolling cumulative basis

E. Control of Carbon Monoxide Emissions

BACT for the emergency diesel firewater engine shall be the application of good combustion controls and lean burn technology. In addition, the engine shall be designed to achieve a CO emission rate not to exceed **2.7 g/BHP**. **[Reference: CPCN #8821, Condition #14c]**

CPCN #8821, Condition #19 –The engine shall be designed to achieve CO emissions not to exceed the following:

CO	1.19 lb./hr.

F. Control of VOC Emissions

CPCN #8821, Condition #19 –The emergency diesel firewater engine shall be designed to achieve VOC emissions not to exceed the following:

VOCs	0.03 lb./hr.

G. Control of Hazardous Air Pollutants

40 CFR §63.6603(a) – "If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart."
Table 2d, Item 4 – "a. Change oil and filter every 500 hours of operation or annually, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary."

Table IV – 3	
	40 CFR §63.6605(a) – "You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times." **40 CFR §63.6605(b)** – "At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source." **40 CFR §63.6640(f)** – "If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (1) There is no time limit on the use of emergency stationary RICE in emergency situations. (2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2). i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not

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	required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year." ii. & iii [Reserved] (3) Not applicable for Area Sources (4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (i) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system. (ii) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator. (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region. (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines. (D) The power is provided only to the facility itself or to support the local transmission and distribution system. (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local

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	transmission and distribution system operator may keep these records on behalf of the engine owner or operator."
3.2	**Testing Requirements:** A. Control of Visible Emissions See Monitoring Requirements. B. Control of Particulate Matter Emissions See Monitoring Requirements. C. Control of Sulfur Oxide Emissions See Monitoring Requirements. D. Control of Nitrogen Oxide Emissions See Monitoring Requirements. E. Control of Carbon Monoxide Emissions See Monitoring Requirements. F. Control of VOC Emissions See Monitoring Requirements. G. Control of Hazardous Air Pollutants See Monitoring Requirements.
3.3	**Monitoring Requirements:** A. Control of Visible Emissions The Permittee shall: (1) properly operate and maintain the engine; and (2) maintain an operations manual and preventive maintenance plan. **[Reference: COMAR 26.11.03.06C]** B. Control of Particulate Matter Emissions The Permittee shall perform preventative maintenance to maintain the engine as designed. **[Reference: COMAR 26.11.03.06C]** C. Control of Sulfur Oxide Emissions The Permittee shall obtain fuel suppliers' certification indicating that the gas complies with the limitation on the sulfur content of the gas or obtain sulfur in fuel analyses of gas that is representative of oil burned. **[Reference: COMAR 26.11.03.06C]**

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	D. Control of Nitrogen Oxide Emissions The Permittee shall perform preventative maintenance to maintain the engine as designed. **[Reference: COMAR 26.11.03.06C]** E. Control of Carbon Monoxide Emissions The Permittee shall perform preventative maintenance to maintain the engine as designed. **[Reference: COMAR 26.11.03.06C]** F. Control of VOC Emissions The Permittee shall perform preventative maintenance to maintain the engine as designed. **[Reference: COMAR 26.11.03.06C]** G. Control of Hazardous Air Pollutants The engine must be operated and maintained according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution practice for minimizing emissions. **[Reference: 40 CFR §63.6625(e) and Table 6, Item 9]** A non-resettable hour meter must be installed on the engine if one is not already installed. **[Reference: 40 CFR §63.6625(f)]** Minimize the time spent at idle during startup and minimize the startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. **[Reference: 40 CFR §63.6625(h)]**
3.4	**Record Keeping Requirements:** A. Control of Visible Emissions The Permittee shall maintain a log of maintenance performed on the engine pump that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]**. B. Control of Particulate Matter Emissions The Permittee shall maintain for at least five years records of preventive maintenance that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]**

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	C. Control of Sulfur Oxide Emissions The Permittee shall maintain on site for at least five years documents certifying the sulfur content of gas received or copies of the sulfur in fuel analyses. **[Reference: COMAR 26.11.03.06C]**. D. Control of Nitrogen Oxide Emissions The Permittee shall maintain for at least five years records of preventive maintenance that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]** E. Control of Carbon Monoxide Emissions The Permittee shall maintain for at least five years records of preventive maintenance that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]** F. Control of VOC Emissions The Permittee shall maintain for at least five years records of preventive maintenance that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]** G. Control of Hazardous Air Pollutants The Permittee must keep records of the occurrence and duration of each malfunction of operation or the air pollution control and monitoring equipment. **[Reference: 40 CFR §63.6655(a)(2)]** The Permittee must keep records of all maintenance performed on the air pollution control and monitoring equipment. **[Reference: 40 CFR §63.6655(a)(4)]** The Permittee must keep records of action taken during periods of malfunction to minimize emissions including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. **[Reference: 40 CFR §63.6655(a)(5)]** The Permittee must keep a copy of the manufacturer's written instructions or maintenance plan for the engine. **[Reference: 40 CFR §63.6655(d)]** The Permittee must keep records of the maintenance conducted on the engine. **[Reference: 40 CFR §63.6655(e)]**

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	The Permittee must keep records of the hours of operation of the engine recorded through the non-resettable hour meter. Records documenting the date, start time, end time, and reason for operation must also be kept. **[Reference: 40 CFR §63.6655(f)]**
3.5	**Reporting Requirements:** A. Control of Visible Emissions The Permittee shall report incidents of visible emissions in accordance with Section III Condition 4 "Report of Excess Emissions and Deviations". B. Control of Particulate Matter Emissions The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]** C. Control of Sulfur Oxide Emissions The Permittee shall report fuel supplier certifications or sulfur in fuel analyses to the Department upon request **[Reference: COMAR 26.11.09.07C].** D. Control of Nitrogen Oxide Emissions The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]** E. Control of Carbon Monoxide Emissions The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]** F. Control of VOC Emissions The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]** G. Control of Hazardous Air Pollutants The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]** If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management

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	practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable. **[Reference: 40 CFR §63.6650]**

"A permit shield shall cover the applicable requirements identified for the emission unit listed in the table above."

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4.0	**Emissions Unit Number(s): Emergency diesel engine** **EU-9**: One (1) 100-kilowatt (kW) emergency diesel switchyard generator.
4.1	**Applicable Standards/Limits:** **A.** Control of Visible Emissions **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." **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." 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." **B.** Control of Sulfur Oxide Emissions **COMAR 26.11.09.07A(1)(c)** – Sulfur Content Limitations for Fuel. "A person may not burn, sell, or make available for sale any fuel with a sulfur

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	content by weight in excess of or which otherwise exceeds the following limitations: Distillate fuel oils, 0.3 percent." ***C.*** Control of Hazardous Air Pollutants **40 CFR §63.6603(a)** – "If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart." **Table 2d, Item 4** – "a. Change oil and filter every 500 hours of operation or annually, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary." **40 CFR §63.6605(a)** – "You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times." **40 CFR §63.6605(b)** – "At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source." **40 CFR §63.6640(f)** – "If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (1) There is no time limit on the use of emergency stationary RICE in emergency situations.

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	(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2). i.Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. ii. & iii [Reserved] (3) Not applicable for Area Sources (4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (i) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system. (ii) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

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	(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region. (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines. (D) The power is provided only to the facility itself or to support the local transmission and distribution system. (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator."
4.2	**Testing Requirements:** A. Control of Visible Emissions See Monitoring Requirements. B. Control of Sulfur Oxide Emissions See Monitoring Requirements. C. Control of Hazardous Air Pollutants See Monitoring Requirements.
4.3	**Monitoring Requirements:** A. Control of Visible Emissions The Permittee shall: (1) properly operate and maintain the engine; and (2) maintain an operations manual and preventive maintenance plan. **[Reference: COMAR 26.11.03.06C]** B. Control of Sulfur Oxide Emissions The Permittee shall obtain fuel suppliers' certification indicating that the gas complies with the limitation on the sulfur content of the gas or obtain sulfur in fuel analyses of gas that is representative of oil burned. **[Reference: COMAR 26.11.03.06C]**

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	C. Control of Hazardous Air Pollutants The engine must be operated and maintained according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution practice for minimizing emissions. **[Reference: 40 CFR §63.6625(e) and Table 6, Item 9]** A non-resettable hour meter must be installed on the engine if one is not already installed. **[Reference: 40 CFR §63.6625(f)]** Minimize the time spent at idle during startup and minimize the startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. **[Reference: 40 CFR §63.6625(h)]**
4.4	**Record Keeping Requirements:** A. Control of Visible Emissions The Permittee shall maintain a log of maintenance performed on the engine pump that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]**. B. Control of Sulfur Oxide Emissions The Permittee shall maintain on site for at least five years documents certifying the sulfur content of gas received or copies of the sulfur in fuel analyses. **[Reference: COMAR 26.11.03.06C]**. C. Control of Hazardous Air Pollutants The Permittee must keep records of the occurrence and duration of each malfunction of operation or the air pollution control and monitoring equipment. **[Reference: 40 CFR §63.6655(a)(2)]** The Permittee must keep records of all maintenance performed on the air pollution control and monitoring equipment. **[Reference: 40 CFR §63.6655(a)(4)]** The Permittee must keep records of action taken during periods of malfunction to minimize emissions including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. **[Reference: 40 CFR §63.6655(a)(5)]**

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	The Permittee must keep a copy of the manufacturer's written instructions or maintenance plan for the engine. **[Reference: 40 CFR §63.6655(d)]** The Permittee must keep records of the maintenance conducted on the engine. **[Reference: 40 CFR §63.6655(e)]** The Permittee must keep records of the hours of operation of the engine recorded through the non-resettable hour meter. Records documenting the date, start time, end time, and reason for operation must also be kept. **[Reference: 40 CFR §63.6655(f)]**
4.5	**Reporting Requirements:** A. Control of Visible Emissions The Permittee shall report incidents of visible emissions in accordance with Section III Condition 4 "Report of Excess Emissions and Deviations". B. Control of Sulfur Oxide Emissions The Permittee shall report fuel supplier certifications or sulfur in fuel analyses to the Department upon request **[Reference: COMAR 26.11.09.07C].** C. Control of Hazardous Air Pollutants The Permittee shall submit records of maintenance to the Department upon request. **[Reference: COMAR 26.11.03.06C]** If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable. **[Reference: 40 CFR §63.6650]**

"A permit shield shall cover the applicable requirements identified for the emission unit listed in the table above."

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5.0	**Emissions Unit Number(s) - Natural Gas heater** **EU-10** – One (1) 7.5 million Btu/hr. natural gas fuel-fired heater equipped with low NO_X burners. [**015-0202-5-0148**]
5.1	**Applicable Standards/Limits:** A. Control of Visible Emissions **COMAR 26.11.09.05A(1) – Visible Emissions.** **"**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 greater than 20 percent opacity. Exceptions. "Section A (1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, start-up, or adjustments or occasional cleaning of control equipment if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty-minute period." B. Control of Nitrogen Oxide Emissions **COMAR 26.11.09.08B(5)** - Operator Training. (a) "For purposes of this regulation, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation. (b) The operator training course sponsored by the Department shall include an in-house training course that is approved by the Department." **COMAR 26.11.09.08E**. - Requirements for Fuel-Burning Equipment with a Rated Heat Input Capacity of 100 Million Btu Per Hour or Less. "A person who owns or operates fuel-burning equipment with a rated heat input capacity of 100 Million Btu per hour or less shall: (1) Submit to the Department an identification of each affected installation, the rated heat input capacity of each installation, and the type of fuel burned in each; (2) Perform a combustion analysis for each installation at least once each year and optimize combustion based on the analysis; (3) Maintain the results of the combustion analysis at the site for at least 2 years and make this data available to the Department and the EPA upon request; (4) Once every 3 years, require each operator of the installation to attend operator training programs on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and

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	(5) Prepare and maintain a record of training program attendance for each operator at the site and make these records available to the Department upon request."
5.2	**Testing Requirements:** A. Control of Visible Emissions See Reporting Requirements. B. Control of Nitrogen Oxide Emissions The Permittee shall perform combustion analysis on the heater at least once per year and optimize combustion based on the analysis. **[Reference: COMAR 26.11.09.08E(2)]**
5.3	**Monitoring Requirements:** A. Control of Visible Emissions See Reporting Requirements. B. Control of Nitrogen Oxide Emissions See Record Keeping Requirements
5.4	**Record Keeping Requirements:** **NOTE:** All records must be maintained for a period of 5 years. **[Reference: COMAR 26.11.03.06C(5)(g)]** A. Control of Visible Emissions See Reporting Requirements. B. Control of Nitrogen Oxide Emissions The Permittee shall maintain the following records on-site for a period of at least five years: (1) Training program attendance for each operator at the site and make these records available to the Department upon request. (2) Results of combustion analysis. **[Reference: COMAR 26.11.09.09E(3)&(5)]**
5.5	**Reporting Requirements:** A. Control of Visible Emissions The Permittee shall report incidents of visible emissions in accordance with Section III Condition 4 "Report of Excess Emissions and Deviations".

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	B. Control of Nitrogen Oxide Emissions The Permittee shall submit: (1) The results of combustion analysis to the department and the EPA upon request. **[Reference: COMAR 26.11.09.08E(3)]** (2) A record of training program attendance for each operator to the Department upon request. **[Reference: COMAR 26.11.09.08E(5)].**

"A permit shield shall cover the applicable requirements identified for the emission unit listed in the table above."

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) ✓ Space heaters utilizing direct heat transfer and used solely for comfort heat;

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

(a) ✓ Storage of butane, propane, or liquefied petroleum, or natural gas;

(b) No. ✓ Storage of lubricating oils;

(c) No. 2 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;

(3) ✓ Potable water treatment equipment, not including air stripping equipment;

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

SECTION VI STATE-ONLY ENFORCEABLE CONDITIONS

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

Applicable Regulations:

(A) 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."

(B) 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: Rock Springs Generation Facility	
Affected Units: 1, 2, 3,and 4	
Owners: Essential Power Rock Springs, LLC	ORIS Code 7835
Effective Date From: _____ To: December 31, 2029	

Contents:

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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.

Plant Name: Rock Springs Generation Facility

2. SO_2 and NO_x Requirements for each affected unit

Units No. 1,2,3,and 4

SO_2 Requirements	
SO_2 Allowances	Essential Power Rock Springs LLC will hold allowances for units 1, 2, 3, and 4 in accordance with 40 CFR 72.9(c)(1).

(1) The owners and operators of each source and each affected unit at the source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
(ii) Starting on the later of January 1, 2000, or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

NO_x Requirements	
NO_x Limit	None

3. Comments, notes and justifications regarding decisions, and changes made to the permit application forms during the review process:

These units burn only pipeline natural gas. Because this unit is not coal-fired, the oxides of nitrogen emissions reduction regulations of 40 CFR Part 76 is not applicable.

Essential Power Rock Springs, LLC is now the sole owner of the Rock Springs Generation Facility.

Note that the original proposal for the facility was for six units; however, units 5 and 6 were never built. North American Energy Alliance acquired Consolidated Edison Development in June 2008. EP Rock Springs, LLC acquired Consolidated Edison Development in 2013.

Renewal Permit Approval

_____ _____

Christopher Hoagland, Director
Air and Radiation Administration

Date of Issue

Maryland Department of the Environment
Air and Radiation Administration

CO_2 BUDGET TRADING PROGRAM PERMIT

Plant Name: Rock Springs Generation Facility	
Affected Trading Units: Unit 1, Unit 2, Unit 3, and Unit 4	
Owner: Essential Power Rock Springs, LLC	**ORIS Code** 7835
Effective Date From: XXXX, 2024 To: December 31, 2029	

Contents:

1. Statement of Basis

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

Renewal Permit Approval

_____ _____

Christopher Hoagland, Director
Air and Radiation Administration

Date of Issue

2. Affected Units

Unit 1D #	ARA ID#	Unit Description
Unit 1	5-0076	General Electric 7 FA gas turbine, with a maximum output of 190
Unit 2	5-0077	General Electric 7 FA gas turbine, with a maximum output of 190 MW
Unit 3	5-0078	General Electric 7 FA gas turbine, with a maximum output of 190 MW
Unit 4	5-0078	General Electric 7 FA gas turbine, with a maximum output of 190 MW

3. Standard Requirements:

A. Selection and Responsibilities of CO_2 Budget Source Compliance Account Authorized Account Representatives.

1. Each CO_2 budget source shall have a CO_2 authorized account representative and an alternate CO_2 authorized account representative. (**COMAR 26.09.01.04B**)

2. Upon receipt of a complete account certificate of representation:

   (a) The CO_2 authorized account representative and alternate CO_2 authorized account representative shall represent and, by representations, actions, inactions, or submissions, legally bind each owner or operator of the CO_2 budget source represented and each CO_2 budget unit at the source in all matters pertaining to this subtitle, notwithstanding any agreement between the CO_2 authorized account representative, alternate CO_2 authorized account representative, and the owners or operators; and (**COMAR 26.09.01.04E(1)**)

   (b) The owners or operators shall be bound by any decision or order issued to the CO_2 authorized account representative or alternate CO_2 authorized account representative by the Department or a court regarding the CO_2 budget source or unit. (**COMAR 26.09.01.04E(2)**)

3. A CO_2 budget permit may not be issued, or a compliance account established for a CO_2 budget source until the Department has received a complete account certificate of representation for a CO_2 authorized account representative and alternate CO_2 authorized account representative of the source and the CO_2 budget units at the source. (**COMAR 26.09.01.04F**)

4. Each submission shall be signed and certified by the CO_2 authorized account representative or alternate CO_2 authorized account representative on behalf of each CO_2 budget source and shall include the following statement by the CO_2 authorized account representative or alternate CO_2

authorized account representative: "I am authorized to make the submission on behalf of the owners or operators of the CO_2 budget sources or CO_2 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 CO_2 Allowances And Compliance

1. Unless otherwise specified in this chapter, a CO_2 budget source shall demonstrate compliance with its CO_2 budget emissions limitation by having one CO_2 allowance in its compliance account for every ton of CO_2 that it emits in a control period, by the allowance transfer deadline for that control period. (**COMAR 26.09.02.03K(1)**)

2. Allowances Available for Compliance Deduction. The following CO_2 allowances may be deducted from a compliance account for purposes of complying with a budget source's CO_2 budget emissions limitation for a control period or an interim control period:

   (a) CO_2 allowances that are not CO_2 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) CO_2 allowances that are held or transferred into the CO_2 budget source's compliance account as of the CO_2 allowance transfer deadline for that control period or for the interim control period contained within that control period;

   (c) CO_2 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 CO_2 budget source's CO_2 emissions for that control period; or

      (ii) 3.3 percent of the CO_2 budget source's CO_2 emissions for an interim control period multiplied by 0.50.

   (**COMAR 26.09.02.03K(3)(a)-(c)**)

3. Deduction of CO_2 allowances: The Department shall deduct allowances from the CO_2 budget source's compliance account until: (i) the number of CO_2 allowances deducted equals 50 percent of the total CO_2 emissions for an interim control period; or (ii) the number CO_2 allowances deducted equals the total CO_2 emissions for the control period. No deduction shall be made for any CO_2 emissions attributable to the burning of eligible biomass. (**COMAR 26.09.02.03K(4)(a)-(b)**)

4. The identification of available CO_2 allowances for compliance deduction by serial number or by default is as follows:

   (a) The CO_2 authorized account representative for a source's compliance account may request that specific CO_2 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 CO_2 allowances by serial number, the Department shall deduct CO_2 allowances for a control period or interim control period in the following descending order:

(i) For the first control period, all CO_2 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 CO_2 allowances for a control period allocated to a CO_2 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 §K(3)(c) of this regulation, any CO_2 offset allowances transferred and recorded in the compliance account, in chronological order; and

(iv) Any CO_2 allowances, other than those identified in §K(5)(b)(i)—(iii) of this regulation, that are available for deduction in the order they were recorded.
(**COMAR 26.09.02.03K(5)(a)-(b)**)

5. Deductions for Excess Emissions:

(a) If a CO_2 budget source has excess emissions, the Department shall deduct CO_2 allowances from the CO_2 budget source's compliance account equal to three times the excess emissions.

(b) If a source's compliance account holds insufficient CO_2 allowances to cover the excess emissions, the source shall immediately transfer sufficient allowances into its compliance account.

(c) CO_2 offset allowances may not be deducted to account for the source's excess emissions.

(d) No CO_2 allowance deduction shall relieve the owners or operators of the CO_2 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 26.09.02.03K(6)(a)-(d))**

6. The following guidelines apply in assessing fines, penalties, or other obligations:

(a) For purposes of determining the number of days of violation, if a CO_2 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 (**COMAR 26.09.02.03K(7)(a)(i))**

(b) The Department shall consider the amount of excess emissions in determining the severity of the violation. (**COMAR 26.09.02.03K(7)(a)(ii))**

(c) Each ton of excess interim emissions is a separate violation. (**COMAR 26.09.02.03K(7)(b))**

7. If the CO_2 budget source's compliance account no longer exists, the CO_2 allowances shall be deposited in a general account selected by the owner or operator of the CO_2 budget source. (**COMAR 26.09.02.03K(8**))

8. Adjustments and Errors:

(a) The Department may review and conduct independent audits concerning any submission under this subtitle and make appropriate adjustments of 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 CO_2 authorized account representative for the account. (**COMAR 26.09.02.03K(9)(a)-(b)**)

C. Applicability and Administration

1. The requirements of this permit apply to the owner or operator of a CO_2 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 CO_2 authorized account representative on behalf of the owner or operator of the affected CO_2 budget source or unit. (**COMAR 26.09.02.02A**)

2. The requirements of this subtitle are effective on January 1, 2009, or, for new CO_2 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 CO_2 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 CO_2 authorized account representative for the source shall submit an initial CO_2 budget permit application by October 1, 2008, or 12 months before the date on which the CO_2 budget source, or a new unit at the source, commences operation. (**COMAR 26.09.02.04A(2)**)

   (b) The CO_2 budget permit application shall include the following in a format prescribed by the Department: 1) the identification of the CO_2 budget source; 2) facility 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 CO_2 budget unit at the source; and 4) other information required by the Department. (**COMAR 26.09.02.04A(3)**)

   (c) A CO_2 authorized account representative for the source shall submit a complete application for the renewal of an existing CO_2 budget permit on forms provided by the Department not later than 90 days before the expiration of the current CO_2 budget permit and in accordance with this regulation. (**COMAR 26.09.02.04E**)

2. Each CO_2 budget source shall apply for and have in effect a CO_2 budget permit that contains all applicable requirements. (**COMAR 26.09.02.04A(1)**)

3. The CO_2 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 CO_2 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 CO_2 budget source is subject to the CO_2 budget emissions limitation, the CO_2 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 CO_2 authorized account representative shall include in the compliance certification report the following:

    (a) Identification of the source and each CO_2 budget unit at the source;

    (b) At the CO_2 authorized account representative's option, the serial numbers of the CO_2 allowances that are to be deducted from the source's compliance account for the control period, including the serial numbers of any CO_2 offset allowances that are to be deducted subject to applicable limitations; and

    (c) The compliance certification required by §A(3) of COMAR 26.11.02.05.
    (**COMAR 26.09.02.05A(2)**)

3. Compliance Certification. In the compliance certification report, the CO_2 authorized account representative shall certify whether the source and each CO_2 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 CO_2 budget unit at the source was operated in compliance with the CO_2 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 CO_2 emissions from the unit;

    (c) Whether all CO_2 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 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;

    (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 CO_2 allowances from, or transfer CO_2 allowances to, a compliance

account to correct errors in the account or to accurately reflect CO_2 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 CO_2 budget unit shall:

   (a) Install monitoring systems to monitor CO_2 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

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

   Where:
   Wco_2=CO_2 emitted from combustion, tons/day.
   MW_c=Molecular weight of carbon (12.0).
   MW_{o2}=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 CO_2 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 CO_2 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 CO_2 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) CO_2 concentration;

   (b) CO_2 emissions rate;

   (c) Stack gas moisture content;

   (d) Fuel flow rate; and

(e) Any other parameter required to determine CO_2 mass emissions.
(**COMAR 26.09.02.10A(2)(a)-(e)**)

9. The owner or operator of a CO_2 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 CO_2 budget unit or a non-CO_2 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, CO_2 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 CO_2 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 26.09.02.10 A(4)(a)-(d)**)

11. For purposes of this subtitle only, the owner or operator of a CO_2 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 CO_2 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 CO_2 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 CO_2 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 26.09.02.10B(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 CO_2 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 CO_2 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 CO_2 authorized account representative is to submit the additional information required to complete the certification application. (**COMAR 26.09.02.10D(4)**)

24. If the CO_2 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 CO_2 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 CO_2 mass emissions using a CO_2 pollutant concentration monitor and a flow monitor, the maximum potential concentration of CO_2 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 CO_2 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 CO_2 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 CO_2 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 CO_2 mass emissions data for the CO_2 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 (**COMAR 26.09.02.11B(2)(a))**

(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)(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 CO_2 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 SO_2 provisions. (**COMAR 26.09.02.11B(4)**)

5. Compliance Certification. The CO_2 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 CO_2 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 CO_2 emissions; and

(c) The CO_2 concentration values substituted for missing data under 40 CFR Part 75, Subpart D, do not systematically underestimate CO_2 emissions.
(**COMAR 26.09.02.11 B(5)(a)-(c))**

6. The CO_2 authorized account representative of a CO_2 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 CO_2 authorized account representative or alternate CO_2 authorized account representative of a CO_2 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 CO_2 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 CO_2 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 CO_2 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 CO_2 emitted from the CO_2 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 CO_2 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 26.09.02.11D(1)(a)-(f)**)

8. An owner or operator of a CO_2 budget unit shall calculate and submit on a quarterly basis the total dry weight for each distinct type of eligible biomass fired by the CO_2 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) Vj = Total volume (scf) for fuel type j;
(iv) Mj = Moisture content (fraction) for fuel type j; and
(v) j = fuel type

(**COMAR 26.09.02.11D(2)(a)-(b)**)

9. The amount of CO_2 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:

$$CO_2 tons = \sum_{j=1}^{n} F_j x C_j x O_j \left(\frac{44\left(\frac{g}{molCO_2}\right)}{12\left(\frac{g}{molC}\right)} \right) (0.0005)$$

where:
(a) CO_2 tons = CO_2 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) Oj = 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:

$$H_j = F_j x HHV_j$$

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, May 2006.
(**COMAR 26.09.02.11D(4) & D(5))**

11. A CO_2 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 CO_2 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 CO_2 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 CO_2 budget unit shall submit the net electrical output to the Department in accordance with this regulation. A CO_2 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) CO_2 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 CO_2 budget source may report heat input, substituting useful steam output for steam output.
    (**COMAR 26.09.02.11E(4)(a)-(b)**)

15. Each CO_2 budget source shall submit an output monitoring plan with a description and diagram that include the following:

    (a) If the CO_2 budget unit monitors net electric output, the diagram shall contain all CO_2 budget units and all generators served by each CO_2 budget unit and the relationship between CO_2 budget units and generators;

    (b) If a generator served by a CO_2 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 CO_2 budget units;

(e) If the CO_2 budget unit monitors net thermal output, the diagram shall indicate all steam or hot water coming into the net steam system, including steam from CO_2 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 CO_2 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 26.09.02.11H(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 26.09.02.11H(4)(a)-(b))

27. The CO_2 authorized account representative shall submit annual output reports, as follows:

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

(b) The annual report shall include unit level megawatt hours, all useful steam output, and a certification statement from the CO_2 authorized account representative stating the following, "I am authorized to make this submission on behalf of the owners and operators of the CO_2 budget sources or CO_2 budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment." (**COMAR 26.09.02.11I(2)**)

G. CO_2 Emission Offset Projects

1. In order to qualify for the award of CO_2 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) Sequestration of carbon due to reforestation, improved forest management, or avoided conversion; and

   (c) Avoided methane emissions from agricultural manure management operations. **(COMAR 26.09.03.02A(1)-(3)**)

4. Permit Application (See Attachment)

ROCK SPRINGS
GENERATION FACILITY

1423 Rock Springs Road
Rising Sun, MD 21911
(410) 658-1107
(410) 658-0351 Fax

10/04/2023

Manager, Air Quality Permits Program
Air and Radiation Management Administration
Maryland Department of the Environment
1800 Washington Blvd.
Baltimore, MD 21230

Please find enclosed two (2) hard copies of the Title V operating permit renewal application for Essential Power Rock Springs, LLC. Currently, the facility is operating in accordance with the Maryland Department of the Environment (MDE) Permit to Operate Permit No. 24-015-0202. There are no significant changes at the facility.

This application package consists of the following parts:

- Title V Operating Permit Application Forms *(Appendix A)*
- Insignificant Activities *(Appendix B)*
- Title V Application Completeness Checklist *(Appendix C)*
- 2022 Emissions Certification Report with Revisions *(Appendix D)*
- 2022 Annual Compliance Certification Report *(Appendix E)*
- Acid Rain Permit Renewal Forms *(Appendix F)*

If you have any questions or comments about the information presented in this application, please do not hesitate to contact me at (215) 539-3142 or Ms. Nicole Saniti at Trinity Consultants at (704) 230-1958.

Sincerely,

Clifford Chew, General Manager
Essential Power Rock Springs, LLC
215-539-3143 | cliffordchew@cogentrix.com
1423 Rock Springs Road
Rising Sun, Maryland 21911

TITLE V OPERATING PERMIT RENEWAL

Essential Power Rock Springs, LLC / Rock Springs, MD

Prepared By:

TRINITY CONSULTANTS
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240.379.7490

October 2023

Project 232101.0058

Trinity Consultants

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1. INTRODUCTION

Essential Power Rock Springs, LLC (Essential Power) owns and manages the Rock Springs Generation Facility (Rock Springs) located at 1423 Rock Springs Road in Rising Sun, Maryland 21911. Rock Springs is a simple-cycle natural gas-fired power generation plant. Essential Power is responsible for operating and maintaining regulated air emission sources at the Rock Springs, MD facility. These sources include the following:

- Four (4) General Electric 7 FA gas turbines, each nominally rated 190 megawatts (MW) at base load, zero degrees ambient temperature;
- One (1) 9.0 million British Thermal Units per hour (MMBtu/hr) natural gas-fired heater equipped with low nitrogen oxides (NO_x) burners;
- One (1) 200 horsepower (hp) emergency diesel fire-water engine and pump;
- One (1) 100 kilowatt (kW) emergency diesel generator; and
- One (1) 7.5 MMBtu/hr natural gas-fired heater equipped with low NOx burners.

All eight (8) units are currently operating under Title V (Part 70) Operating Permit No. 24-015-0202 issued by the Maryland Department of the Environment (MDE). In accordance with Section II Condition 5, Essential Power must apply for the renewal of this Title V Operating Permit at least twelve (12) months before the expiration of Permit No. 24-015-0202. As such, Essential Power is submitting this permit renewal application prior to the October 31, 2023 submission deadline.

1.1 Request for Permit Application Shield

Section 503(d) of the Clean Air Act Amendments (CAAA) provides that once a timely and complete application for an operating permit has been filed, the applicant is shielded from enforcement action for operating without a permit until the permit has been issued or other action has been taken on the application. Code of Maryland Regulations (COMAR) 26.11.03.01(D) incorporates into state law the concept of an application shield for sources required to obtain a Title V operating permit, indicating that all terms and conditions of the permit including any permit shield that may be granted shall remain in effect until the renewal permit has been issued or denied. This application serves as the required Title V permit renewal application, which is being submitted in a timely manner, as required. According to the permit application shield provisions, Essential Power may continue to operate under the current Title V permit, until the renewed Title V permit is issued or denied.

1.2 Request for Permit Shield

Section 504(f) of the CAAA defines the permit shield provision, whereby the permitting authority is empowered to provide that compliance with a Part 70 permit shall be deemed in compliance with all applicable provisions of the Act. COMAR 26.11.03.23 incorporates into state law the concept of a permit shield, and COMAR 26.11.03.23(A) states that compliance with the federally enforceable conditions of the Part 70 permit is deemed to be in compliance with all applicable requirements of the Clean Air Act (Clean Air Act) as of the date of permit issuance.

Essential Power is requesting through this application that MDE continue to include the permit shield provisions in the renewed operating permit consistent with COMAR 26.11.03.23. Therefore, in addition to providing a summary of applicable requirements in Section 3, this application also provides non-applicability determinations for certain regulations to assist MDE in determining in writing that identified regulations are

not applicable to operations at Rock Springs. Note that this non-applicability review is limited to those regulations for which there may be some question of applicability specific to Rock Springs.

1.3 Application Organization

The following information is included as part of this application submittal:

- Section 2 describes the facility and processes at the facility
- Section 3 details the federal and state regulatory applicability analysis for the facility
- Appendix A contains the necessary MDE permit application forms
- Appendix B contains the Checklist of Insignificant Activities
- Appendix C includes the Application Completeness Checklist
- Appendix D includes the 2022 Emissions Certification Report with revisions
- Appendix E includes the 2022 Annual Compliance Certification Report
- Appendix F includes the Acid Rain Program permit renewal form

2. FACILITY DESCRIPTION

Rock Springs consists of four (4) General Electric 7 FA gas turbines (CTs), each nominally rated 190 MW at base load, zero degrees ambient temperature (EU-1, EU-2, EU-3, and EU-4). Each turbine operates in simple cycle mode and combusts only pipeline quality natural gas. Each turbine is equipped with dry, low-NO_X burners. All four turbines (EU 1-4) are limited to a combined 8,000 hours of operation per year, based on a cumulative 12-month rolling average. Each of the four operating combustion turbines is equipped with a single discharge stack. The plant also includes two (2) [7.5 & 9.0 MMBtu/hr] natural gas-fired heaters (EU-10 and EU-7, respectively), one (1) 200 hp emergency diesel fire-water pump (EU-8), and one (1) 4-stroke cycle, 6-cylinder 100 kW switchyard diesel-fired emergency generator (EU-9).

3. REGULATORY APPLICABILITY REVIEW

This section contains a review of the Federal and Maryland regulations that are potentially applicable to the site and requests for permit shields for non-applicable regulations.

3.1 Federal Regulations

Applicability or non-applicability of the following federal regulatory programs is addressed:

- New Source Performance Standards (NSPS)
- National Emission Standards for Hazardous Air Pollutants (NESHAP)
- Compliance Assurance Monitoring (CAM)
- Risk Management Program (RMP)
- Acid Rain Program (ARP)
- NO_X Budget Program
- Cross-State Air Pollution Rule (CSAPR)
- Stratospheric Ozone Protection
- Greenhouse Gas (GHG)

3.1.1 New Source Performance Standards

The New Source Performance Standards (NSPS), located in Title 40 of the Code of Federal Regulations Part 60 (40 CFR 60), require new, modified, or reconstructed sources in applicable source categories to control emissions to the level achievable by the best demonstrated technology as specified in the applicable provisions. Any source subject to an NSPS is also subject to the general provisions of NSPS Subpart A, except as noted.

3.1.1.1 40 CFR 60 Subpart A: General Provisions

NSPS Subpart A provides general provisions referenced by other NSPS Subparts. The turbines at Rock Springs are subject to NSPS Subpart GG. Subpart A provides requirements for notifications, performance testing, recordkeeping, monitoring, and control requirements for referencing subparts as applicable.

3.1.1.2 40 CFR 60 Subpart Dc: Small Industrial-Commercial-Institutional Steam Generating Units (Not Applicable)

NSPS Subpart Dc regulates steam generating units for which construction, modification, or reconstruction commenced after June 9, 1989 with a maximum design heat input capacity greater than 10 MMBtu/hr and less than or equal to 100 MMBtu/hr. Per 40 CFR 60.40c(e), fuel heaters are potentially subject to NSPS Subpart Dc. Although the natural gas-fired heaters at the facility are indirect-fired fuel heaters, the heat input capacity of both heaters is less than 10 MMBtu/hr. Therefore, NSPS Subpart Dc does not apply to the natural gas-fired heaters (EU-7 and EU-10).

3.1.1.3 40 CFR 60 Subpart GG: Stationary Gas Turbines

NSPS Subpart GG regulates stationary gas turbines with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MMBtu) per hour, based on the lower heating value of the fuel fired, that are constructed, modified, or reconstructed after October 3, 1977.

All gas turbines at Rock Springs were constructed after October 3, 1977 and prior to the NSPS Subpart KKKK applicability date (February 18, 2005); therefore, Subpart GG applies to all four turbines at Rock Springs.

Subpart GG includes emission standards for NO_X and sulfur dioxide (SO_2) as well as the related monitoring, recordkeeping, and reporting requirements to demonstrate compliance with the standards. The Subpart GG requirements applicable to the turbines are specified in Section IV Table IV-1, Section 1.1(C) and (D), Section 1.3(C) and (D), and Section 1.5(C) of the current Title V permit. There have been no changes in the Subpart GG applicability at Rock Springs.

3.1.1.4 40 CFR 60 Subpart IIII: Stationary Compression Ignition Internal Combustion Engines (Not Applicable)

NSPS Subpart IIII applies to stationary compression ignition (CI) internal combustion engines (ICE) that commence construction after July 11, 2005 or are modified or reconstructed after July 11, 2005. The emergency fire pump (EU-8) and 100 kW switchyard emergency generator (EU-9) were both installed in 2002. Neither engine has been modified or reconstructed since the initial installation. Therefore, this subpart is not applicable.

3.1.1.5 40 CFR 60 Subpart KKKK: Stationary Combustion Turbines (Not Applicable)

NSPS Subpart KKKK applies to stationary combustion turbines with a heat input at peak load of 10 MMBtu/hr or greater that commenced construction, modification, or reconstruction after February 18, 2005. All combustion turbines at Rock Springs were installed prior to 2005 and none of the turbines have been modified or reconstructed since the initial installation. Therefore, this subpart is not applicable.

3.1.2 National Emission Standards for Hazardous Air Pollutants

National Emissions Standards for Hazardous Air Pollutants (NESHAP), located in 40 CFR 61 and 63, have been promulgated for source categories that emit HAPs. A facility that is a major source of HAP is defined as having potential emissions greater than 25 tons per year of total HAPs or 10 tons per year of any single HAP. Facilities with a potential to emit HAPs at an amount less than these major source thresholds are considered area sources. Rock Springs is an area source of HAPs.

The determination of applicability to NESHAP requirements are detailed in the following sections.

3.1.2.1 40 CFR 61 Subpart M: Asbestos (Generally Applicable)

40 CFR 61, Subpart M (NESHAP for Asbestos) potentially applies to Rock Springs. Subpart M becomes applicable if any on-site activity involves the removal of asbestos. The requirements of this subpart include guidelines for asbestos removal. Certified workers are to be used to perform any regulated removal activities at this facility. If Subpart M becomes applicable, 40 CFR 61 Subpart A (General Provisions) would also apply to the facility. The General Provisions contain portions of the regulation that are generally applicable, e.g., the initial notification requirements and performance testing procedures.

3.1.2.2 40 CFR 63 Subpart A: General Provisions

Any source subject to a specific NESHAP is also subject to the general provisions of Subpart A of that part.

3.1.2.3 40 CFR 63 Subpart ZZZZ: Stationary Reciprocating Internal Combustion Engines

Subpart ZZZZ regulates HAPs emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. Rock Springs operates the 200 hp emergency fire

pump (EU-8) and the 100 kW switchyard emergency generator (EU-9), which are affected sources under Subpart ZZZZ. Rock Springs complies with the applicable area source requirements of this standard.

3.1.2.4 40 CFR 63 Subpart JJJJJJ: Industrial, Commercial, and Institutional Boilers Area Sources (Not Applicable)

Subpart JJJJJJ regulates HAP emissions from industrial, commercial, or institutional boilers at area sources of HAP emissions. Per 40 CFR 63.11195(e), gas-fired boilers are not subject to Subpart JJJJJJ. Further, the gas-fired heaters do not meet the definition of a boiler in 40 CFR 63.11237, as they do not heat water to recover thermal energy in the form of steam and/or hot water. Therefore, this subpart does not apply to EU-7 and EU-10.

3.1.3 Compliance Assurance Monitoring (Not Applicable)

Under 40 CFR 64, CAM facilities are required to prepare and submit monitoring plans for certain emission units with the Title V application. The CAM Plans provide an ongoing and reasonable assurance of compliance with emission limits and are specific to emission unit and pollutant. Under the general applicability criteria, this regulation only applies to emission units that meet both of the following criteria: (1) use a control device to achieve compliance with an emission limit and (2) have pre-controlled emission levels that exceed the major source thresholds under the Title V permitting program. None of the units at the site use a control device to comply with an emission limitation or standard; therefore, the CAM regulations do not apply for Rock Springs.

3.1.4 Acid Rain Regulations

To reduce acid rain in the United States and Canada, Title IV (40 CFR 72 et seq.) of the CAAA of 1990 established the Acid Rain Program to substantially reduce SO_2 and NO_X emissions from electric utility plants. The Acid Rain Program applies generally to fossil fuel-fired combustors that drive generators for the purpose of generating electricity for sale. Any piece of equipment is subject to the regulations if it is a "utility unit." The regulations define utility unit as, "a unit owned or operated by a utility…[t]hat serves a generator in any State that produces electricity for sale." A "utility" is defined as "any person that sells electricity."[1] As such, the combustion turbines are subject to the Acid Rain Program regulations if they are fossil fuel-fired combustion devices (i.e., units) that generate electricity to be sold (i.e., utility units). Accordingly, all subparts of the Acid Rain Program are potentially applicable to Rock Springs. The potentially applicable subparts are identified as follows:

- 40 CFR 72, Permits Regulation;
- 40 CFR 73, Allowance System;
- 40 CFR 75, Continuous Emission Monitoring;
- 40 CFR 76, Acid Rain Nitrogen Oxides Emission Reduction Program, and
- 40 CFR 77, Excess Emissions.

The applicable Acid Rain Program requirements are referenced in Section IV Table IV-1, Section 1.1(C) and the Phase II Acid Rain Permit in Appendix A of the current Title V permit. Essential Power has included the required Acid Rain permit renewal application for the Acid Rain Program in Appendix E.

[1] 40 CFR §72.2.

3.1.4.1 40 CFR 72: Acid Rain Permits Regulation

The pertinent subparts of this section are Subparts A, B, C, and I. Subpart A of 40 CFR 72 outlines the general requirements for sources and units affected by the Acid Rain Program such as permit, monitoring, emission, recordkeeping and reporting, and liability. Subpart B lists the requirements and responsibilities associated with the title of designated representative. Subpart C contains the requirements for Acid Rain Program permit applications. Subpart I provides requirements for compliance certification, specifically the annual compliance certification report.[2]

The required Acid Rain Program permit renewal form is included in Appendix E of this application.

3.1.4.2 40 CFR 73: Sulfur Dioxide Allowance System

Part 73 establishes requirements for the allocation of SO_2 emissions allowances and the maintenance of the account using the Allowance Tracking System maintained by EPA for each ton of SO_2 emissions per year. SO_2 allowances are allocated for EU-1 through EU-4 under Part 73.

3.1.4.3 40 CFR 75: Continuous Emissions Monitoring

40 CFR 75 provides the unit specific requirements for monitoring, recordkeeping, and reporting of SO_2, NO_X, and carbon dioxide (CO_2) emissions, volumetric flow, and opacity data.[3] Rock Springs complies with the monitoring requirements of 40 CFR 75 as required in the Acid Rain Permit and as referenced in other applicable regulations.

3.1.4.4 40 CFR 76: Nitrogen Oxides Emission Reduction Program (Not Applicable)

Part 76 establishes NO_X emissions reduction requirements for coal-fired utility units subject to SO_2 emissions limitation or reduction requirements. Rock Springs turbines are not coal-fired units; therefore, Part 76 does not apply to Rock Springs.

3.1.4.5 40 CFR 77: Excess Emissions

Excess emission occurrences require payment of penalties. The penalty per ton of excess SO_2 is determined using the base value of $2,000 and an annual adjustment factor based on the Consumer Price Index (CPI) for 1990 and the current year, currently approximately $4,000.[4] Rock Springs complies with this regulation as required.

3.1.5 Stratospheric Ozone Protection Regulations

The requirements originating from Title VI of the Clean Air Act, entitled Protection of Stratospheric Ozone, are contained in 40 CFR 82. Subparts A through E and Subparts G and H of 40 CFR 82 are not applicable to Rock Springs. However, 40 CFR 82 Subpart F, Recycling and Emissions Reduction, is applicable.

The provisions of Subpart F apply to any person who maintains, services, repairs, or disposes of appliances that utilize Class I or Class II ozone depleting substances (including their non-exempt substitutes) and requires persons completing the repairs, service, or disposal be properly certified. Essential Power utilizes certified technicians to complete all repairs, service, and disposal of ozone depleting substances as required.

[2] 40 CFR §72.90.

[3] 40 CFR §75.1(a).

[4] 40 CFR §77.6.

3.1.6 Cross-State Air Pollution Rule

The Cross-State Air Pollution Rule (CSAPR) outlined in 40 CFR Part 97 addresses air pollution from upwind states that crosses state lines and affects air quality in downwind states. CSAPR requires certain states in the eastern half of the U.S., including Maryland, to improve air quality by reducing power plant emissions of SO_2 and NO_X that cross state lines and contribute to smog and soot pollution in downwind states, which help downwind areas attain and maintain EPA's National Ambient Air Quality Standards (NAAQS).

In addition, Maryland complies with its NOx Budget Trading Program obligations by incorporating CSAPR in COMAR 26.11.28. All four turbines at Rock Springs are subject to CSAPR as listed in Table IV-1a of the current Title V permit. Essential Power complies with the rule, as required, and is not requesting any changes with this application.

3.1.7 Mandatory Greenhouse Gas Reporting

40 CFR Part 98 established mandatory greenhouse gas (GHG) reporting requirements for owners and operators of certain facilities that directly emit GHG as well as for certain suppliers. The reporting requirements based on the applicability criteria specified in 40 CFR 98.2(a), which is based on the source category and emissions of carbon dioxide equivalent (CO_2e) from the facility. The turbines at Rock Springs meet the criteria of a source category listed in Table A-3 of Part 98, Subpart A. Specifically, the turbines meet the applicability under the Subpart D reporting category as electricity generation units that report CO_2 mass emissions year round through 40 CFR Part 75. Rock Springs meets the applicability criteria in 40 CFR 98.2(a)(1) and, therefore, must report under Part 98 regardless of CO_2e emission levels for the facility.

Rock Springs complies with the GHG reporting provisions under Part 98 as required.

3.1.8 Risk Management Plan Regulations (Not applicable)

Subpart G of 40 CFR 68 outlines requirements for risk management plans (RMP) pursuant to Section 112(r) of the Clean Air Act. Applicability of this subpart is determined based on the type and quantity of chemicals stored at a facility. Rock Springs does not store any listed substances in quantities greater than the corresponding threshold. Therefore, Rock Springs is not subject to RMP requirements.

3.2 Maryland State Regulatory Applicability

Maryland's air quality regulations are codified under COMAR 26.11. These regulations, where potentially applicable to Rock Springs, have been reviewed in this section. The regulations are not discussed in detail where the facility is categorically exempt, or where general regulations are not specific to the proposed operations.

3.2.1 COMAR 26.11.01 – General Administrative Provisions, COMAR 26.11.02 – Permits, Approvals and Registration, COMAR 26.11.03 – Permits, Approvals and Registration – Title V Permits

Rock Springs is subject to the relevant provisions in these regulations and is located in Area VI under COMAR 26.11.01.03. MDE will incorporate these provisions into the facility's Title V Operating Permit.

3.2.2 COMAR 26.11.06.02 – Visible Emissions

In Area VI, a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity. These emissions standards do not apply during start-up and process modifications or adjustments if the visible emissions are not greater than 40 percent opacity and the visible emissions do not occur for more than six (6) consecutive minutes in any 60-minute period.

3.2.3 COMAR 26.11.06.03 – Particulate Matter

In installations constructed on or after January 17, 1972, a company may not allow particulate matter (PM) to be discharged in excess of 0.05 grains per dry standard cubic feet (gr/SCFD), equivalent to 115 milligrams per dry standard cubic meters (mg/dscm). All emission units at the facility (EU-1 through EU-4, EU-7, EU-8, EU-9, and EU-10) were installed in 2001 or later and are therefore subject to this regulation.

3.2.4 COMAR 26.11.06.06 – Volatile Organic Compounds (Not applicable)

COMAR 26.11.06.06 is not applicable to operations subject to COMAR 26.11.08, 26.11.09, 26.11.11, 26.11.13, and 26.11.19.02G. Rock Springs emission sources are subject to COMAR 26.11.09.05 and .07 (see Section 3.2.7) and are therefore not subject to this regulation.

3.2.5 COMAR 26.11.06.08 & 26.11.06.09 – Nuisance and Odors

COMAR 26.11.06.08 and COMAR 26.11.06.09 establish general provisions for the control of nuisances and odor, respectively. Rock Springs will continue to be subject to these general requirements.

3.2.6 COMAR 26.11.06.12 – Control of New Source Performance Standard (NSPS) Sources

A person may not construct, modify, or operate, or cause to be constructed, modified, or operated, a NSPS source as defined in COMAR 26.11.01.01B(23), which results or will result in violation of the provisions of 40 CFR 60, as amended. Rock Springs will continue to comply with this requirement.

3.2.7 COMAR 26.11.09.05-.07 – Control of Fuel Burning Equipment, Stationary Internal Combustion Engines and Certain Fuel-Burning Installations

EU-1 through EU-4, EU-7, and EU-10 at Rock Springs are subject to COMAR 26.11.09.05A(1) which limits visible emissions to 20 percent opacity. These limits do not apply during load changing, soot blowing, startups, adjustments, or cleaning of control equipment if the visible emissions are not greater than 40 percent opacity and the visible emissions do not occur for more than 6 consecutive minutes in any 60-minute period.

EU-8 and EU-9 at Rock Springs are subject to COMAR 26.11.09.05E(2) and (3) which limits visible emissions to 10 percent when operating at idle and to 40 percent when operating at conditions other than idle. These limits do not apply while maintenance, repair, or testing is being performed by qualified mechanics. The 10 percent limit for idling does not apply for a period of two consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system. The 10 percent limit also does not apply to emissions resulting directly from cold engine start-up and warm-up for a maximum of 30 minutes if engine is idle continuously when not in service or a maximum of 15 minutes for all other engines.

All units are not subject to COMAR 26.11.09.06 because this equipment does not combust solid fuel or residual oil.

EU-8 and UE-9 at Rock Springs are subject to COMAR 26.11.09.07A(1)(c) which limits the fuel sulfur content by weight to 0.3 percent.

3.2.8 COMAR 26.11.15 and 26.11.16 - Toxic Air Pollutants

COMAR 26.11.15 and COMAR 26.11.16 contain requirements for the Toxic Air Pollutants (TAPs) program in Maryland. In addition, COMAR 26.11.15.02 requires a facility to meet applicable 40 CFR 63 NESHAP requirements. Rock Springs will continue to operate in accordance with the TAP regulations for all applicable sources at the facility.

3.2.9 COMAR 26.11.36 – Distributed Generation

COMAR 26.11.36.03 contains requirements for all stationary engines which will apply to EU-8 and EU-9. Under this regulation, the engines are subject to requirements under 40 CFR 63 Subpart ZZZZ. Refer to Section 3.1.2.2 for a summary of requirements under these Federal regulations.

3.2.10 COMAR 26.11.40 – NO_x Ozone Season Emission Caps for Non-trading Large NO_x Units (Not Applicable)

This regulation limits NO_x emissions during ozone season for non-trading large NO_x units, which are a fossil-fuel fired stationary boiler, combustion turbine, or combined cycle system with a maximum design heat input greater than 250 million British thermal units per hour (MMBtu/hr). EU-7 and EU-10 are each rated less than 250 MMBtu/hr and are therefore not subject to this regulation.

APPENDIX A. TITLE V OPERATING PERMIT APPLICATION FORMS

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard ● Baltimore MD 21230
(410) 537-3000 ● 1-800-633-6101 ● http://www.mde.state.md.us

PART 70 PERMIT APPLICATION FOR RENEWAL

AIR AND RADIATION MANAGEMENT ADMINISTRATION

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

Owner and Operator:

Name of Owner or Operator: Essential Power Rock Springs, LLC			
Street Address: 1423 Rock Springs Road			
City:	Rising Sun	State: Maryland	Zip Code: 21911
Telephone Number 410 658 0350			Fax Number 410 658 0351

Facility Information:

Name of Facility: Rock Springs Generating Facility			
Street Address: 1423 Rock Springs Road			
City:	Rising Sun	State: Maryland	Zip Code: 21911
Plant Manager: Clifford Chew		Telephone Number: 215-539-3143	Fax Number:
24-Hour Emergency Telephone Number for Air Pollution Matters: Rock Springs Control Room – 410-423-4213			

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

SECTION 1. CERTIFICATION STATEMENTS

1. Compliance Status with Applicable Enhanced Monitoring and Compliance Certification Requirements

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

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

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

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

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

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

4. Risk Management Plan Compliance

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

[ ] has been submitted;

[ ] will be submitted at a future date; or

[X] does not need to be submitted.

5. Statement of Truth, Accuracy, and Completeness

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

RESPONSIBLE OFFICIAL:

X _____ 10/4/2023

SIGNATURE DATE

Clifford Chew

PRINTED NAME

PRINTED NAME

General Manager

SECTION 2. FACILITY DESCRIPTION SUMMARY

1. Major Activities of Facility

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

The Rock Springs Generating Facility located at 1423 Rock Springs Road in Rising Sun, Maryland, 21911, is a simple cycle natural gas fired power generating plant in Cecil County. Its applicable Standard Industrial Classification (SIC) Code is 4911- Electric Services. The facility consists of four (4) General Electric 7 FA gas turbines, each nominally rated at 190 MW at base load, zero degrees ambient temperature. Each turbine operates in simple cycle mode and combusts only pipeline quality natural gas. Each turbine is equipped with dry low NOx burners. The facility also includes two (2) natural gas-fired heaters, 7.5 and 9 million British Thermal Units per hour, respectively, one (1) 200 horsepower (hp) emergency diesel firewater pump, and one (1) 4-stroke cycle, 6-cylinder switchyard diesel emergency generator.

2. Facility-Wide Emissions

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

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

B. List the actual facility-wide emissions below:

PM-10 7.995 NOx 40.677 VOC 2.546 SOx 0.736 CO 10.295 HAPs 1.355
*Based on the 2022 emission statement submittal and attached revisions

3. Include With the Application:

Flow Diagrams showing all emissions units, emission points, and control devices;
Emissions Certification Report (copy of the most recent submitted to the Department.)

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: EU-1 1a. Date of installation (month/year): October, 2001	2. MDE Registration No.:(if applicable) 5-0076

3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s):
One (1) General Electric 7 FA gas turbine with a nominal maximum output of 190 Megawatts (MW) (at an ambient temperature of 0 deg. F, 100% load, 600 feet elevation and 60% humidity) for generation of electricity. This turbine operates in simple cycle mode and combusts only pipeline quality natural gas. The turbine is equipped with dry, low-NOx burners. All four turbines (EU 1-4) are limited to 8,000 hours of operation per year, combined.

4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit:
General Reference: CPCN#8821 Condition 16

Continuous Processes: N/A hours/day N/A days/year 8,000 hours/year (EU 1-4 Combined)

Batch Processes: N/A hours/batch N/A batches/day

N/A days/year

5. Fuel Consumption:

	Type(s) of Fuel	% Sulfur	Annual Usage (specify units)
1.	Natural Gas	0.8	570,891 MMBTU * 2022 usage
2.			
3.			

6. Emissions in Tons:

A. Actual Major: _____ Potential Major: x (note: before control device)

B. Actual Emissions: NOx 8.46 SOx 0.16 VOC 0.55 PM_{10} 1.73 HAPs 0.293

*Based on the 2022 emission statement submittal and attached revisions

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: EU-2 1a. Date of installation (month/year): October, 2001	2. MDE Registration No.:(if applicable) 5-0077

3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): One (1) General Electric 7 FA gas turbine with a nominal maximum output of 190 Megawatts (MW) (at an ambient temperature of 0 deg. F, 100% load, 600 feet elevation and 60% humidity) for generation of electricity. This turbine operates in simple cycle mode and combusts only pipeline quality natural gas. The turbine is equipped with dry, low-NOx burners. All four turbines (EU 1-4) are limited to 8,000 hours of operation per year, combined.

4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit:

General Reference: CPCN #8821 Condition 16

Continuous Processes: ___N/A___ hours/day _N/A__days/year 8,000 hours/year (EU 1-4 Combined)

Batch Processes: ____N/A__ hours/batch _N/A__batches/day

_____N/A_ days/year

5. Fuel Consumption:

	Type(s) of Fuel	% Sulfur	Annual Usage (specify units)
1.	Natural Gas	0.8	626,176 MMBTU * 2022 usage
2.			
3.			

6. Emissions in Tons:

A. Actual Major: _____ Potential Major: _____x_____ (note: before control device)

B. Actual Emissions: NOx 10.02 SOx 0.17 VOC 0.6 PM_{10} 1.90 HAPs 0.322

*Based on the 2022 emission statement submittal and attached revisions

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: EU-3 1a. Date of installation (month/year): October, 2001	2. MDE Registration No.:(if applicable) 5-0078

3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s):
One (1) General Electric 7 FA gas turbine with a nominal maximum output of 190 Megawatts (MW) (at an ambient temperature of 0 deg. F, 100% load, 600 feet elevation and 60% humidity) for generation of electricity. This turbine operates in simple cycle mode and combusts only pipeline quality natural gas. The turbine is equipped with dry, low-NOx burners. All four turbines (EU 1-4) are limited to 8,000 hours of operation per year, combined.

4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit:
General Reference: CPCN #8821 Condition 16

Continuous Processes: ___N/A___ hours/day _N/A__days/year 8,000 hours/year (EU 1-4 Combined)

Batch Processes: ____N/A__ hours/batch _N/A__batches/day

_____N/A__ days/year

5. Fuel Consumption:

	Type(s) of Fuel	% Sulfur	Annual Usage (specify units)
1.	Natural Gas	0.8	744,591 MMBTU * 2022 usage
2.			
3.			
4.			

6. Emissions in Tons:

A. Actual Major: _____ Potential Major: _____x_____ (note: before control device)

B. Actual Emissions: NOx 11.04 Sox 0.21 VOC 0.72 PM_{10} 2.26 HAPs 0.382

*Based on the 2022 emission statement submittal and attached revisions

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: EU-4 1a. Date of installation (month/year): October, 2001	2. MDE Registration No.:(if applicable) 5-0079

3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): One (1) General Electric 7 FA gas turbine with a nominal maximum output of 190 Megawatts (MW) (at an ambient temperature of 0 deg. F, 100% load, 600 feet elevation and 60% humidity) for generation of electricity. This turbine operates in simple cycle mode and combusts only pipeline quality natural gas. The turbine is equipped with dry, low-NOx burners. All four turbines (EU 1-4) are limited to 8,000 hours of operation per year, combined.

4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit:

General Reference: CPCN#8821 Condition 16

Continuous Processes: N/A hours/day N/A days/year 8,000 hours/year (EU 1-4 Combined)

Batch Processes: N/A hours/batch N/A batches/day

N/A days/year

5. Fuel Consumption:

	Type(s) of Fuel	% Sulfur	Annual Usage (specify units)
1.	Natural Gas	0.8	686,042 MMBTU * 2022 usage
2.			
3.			

6. Emissions in Tons:

A. Actual Major: _____ Potential Major: x (note: before control device)

B. Actual Emissions: NOx 10.85 SOx 0.19 VOC 0.66 PM_{10} 2.08 HAPs 0.352

*Based on the 2022 emission statement submittal and attached revisions

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: EU-7 1a. Date of installation (month/year): 2001	2. MDE Registration No.:(if applicable) 6-0205

3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): One (1) 9 MMBTU/hr natural gas fired heater to condition the natural gas from the pipeline. The unit combusts pipeline quality gas, only, and utilizes low NOx burners for NOx reduction.

4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit:

General Reference: None

Continuous Processes: 24 hours/day 365 days/year

Batch Processes: _____ hours/batch _____batches/day

N/A days/year

5. Fuel Consumption:

	Type(s) of Fuel	% Sulfur	Annual Usage (specify units)
1.	Natural Gas	0.8	4,312.3 MMBtu * 2022 Usage
2.			
3.			

6. Emissions in Tons:

A. Actual Major: _____ Potential Major: _____ (note: before control device)

B. Actual Emissions: NOx 0.216 SOx 0.001 VOC 0.012 PM_{10} 0.022 HAPs 0.00399

*Based on the 2022 emission statement submittal and attached revisions

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: EU-8 1a. Date of installation (month/year): September 2002	2. MDE Registration No.:(if applicable)

3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): One 200 Horsepower Emergency Diesel Fire Water Engine and Pump.

4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit:

General Reference: None

Continuous Processes: 24 hours/day 365 days/year

Batch Processes: _____ hours/batch _ batches/day

_____ days/year

5. Fuel Consumption:

	Type(s) of Fuel	% Sulfur	Annual Usage (specify units)
1.	Diesel No. 2D	0.3	480.0 gallons
2.			
3.			

6. Emissions in Tons:

A. Actual Major: _____ Potential Major: _____ (note: before control device)

B. Actual Emissions: NOx 0.0556 SOx 0.00349 VOC 0.0004 PM_{10} 0.001 HAPs 0.000128

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: EU-9 1a. Date of installation (month/year): September 2002	2. MDE Registration No.:(if applicable)

3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): one 100 Kilowatt Switchyard Emergency Diesel Generator

4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit:

General Reference: None

Continuous Processes: 24 hours/day

365 days/year

Batch Processes: _____ hours/batch _ __batches/day

_____ days/year

5. Fuel Consumption:

	Type(s) of Fuel	% Sulfur	Annual Usage (specify units)
1.	Diesel No. 2D	0.3	28.0 gallons
2.			
3.			

6. Emissions in Tons:

A. Actual Major: _____ Potential Major:_____ _____ (note: before control device)

B. Actual Emissions: NOx 0.00852 SOx 0.00056 VOC 0.0007 PM_{10} 0.001 HAPs 7.81E-06

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: EU-10 1a. Date of installation (month/year): November 2017	2. MDE Registration No.:(if applicable) ID# 015-0202-5-0148 AI No: 11254

3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): One (1) 7.5 MMBTU/hr natural gas fired heater to condition the natural gas from the pipeline. The unit combusts pipeline quality gas only, and utilizes low NOx burners for NOx reduction.

4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit:

General Reference: None

Continuous Processes: 24 hours/day 365 days/year

Batch Processes: _____ hours/batch _____batches/day

N/A days/year

5. Fuel Consumption:

	Type(s) of Fuel	% Sulfur	Annual Usage (specify units)
2.	Natural Gas	0.8	1,121.9 MMBtu
2.			
3.			

6. Emissions in Tons:

A. Actual Major: _____ Potential Major: _____ (note: before control device)

B. Actual Emissions: NOx 0.027 SOx 0.000 VOC 0.003 PM_{10} 0.001 HAPs 0.00104

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

Emissions Unit No.: ___EU 1 thru 4__ General Reference: COMAR 26.11.09.05A (1); Part 70 Permit 24-015-00202, Table IV-1,1.1A

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Visible Emissions = 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 greater than 20 percent opacity. ___

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: None _____

Describe: _____

Testing: None
Describe:_____

Record Keeping: None
Describe: _____

Reporting: Part 70 Permit No. 24-015-00202 Section III, Condition # 4
Describe: Permittee shall report incidents in accordance with section III, Condition #4 "Report of Excess Emissions and Deviations.

Frequency of submittal of the compliance demonstration: _____As needed_____

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

Emissions Unit No.: ___EU 1 thru 4__ General Reference: COMAR 26.11.09.05A (1); Part 70 Permit 24-015-00202, Table IV-1,1.1B

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Particulate Matter Emissions – Concentration of PM_{10} shall not exceed 18 lb/hr and shall not exceed 134.5 TPY for all 4 units combined on a 12-month rolling cumulative basis.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee shall perform preventative maintenance to maintain the turbine in a condition such that it operates as designed.

Testing: None Describe:

Record Keeping: None
Describe: The permittee shall maintain for at least five years' records of the preventative maintenance that relates to combustion performance and records of the stack test results.

Reporting: COMAR 26.11.03.06C
Describe: The permittee shall submit records of maintenance to the Department upon request. The Permittee shall submit the results of any stack tests within 45 days after completion of a stack test.

Frequency of submittal of the compliance demonstration: ____As needed_____

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

Emissions Unit No.: EU 1 thru 4 General Reference: 40 CFR 60.333, NSPS Subpart GG; Part 70 Permit 24-015-00202, Table IV-1,1.1C

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Sulfur Dioxide Emissions – NSPS Subpart GG which limits sulfur content in any fuel burned in a gas turbine to 0.8 % by weight. SO2 emissions shall not exceed 2.5 lb/hr for each combustion turbine and 15 tpy for all four turbines combined on a 12 month rolling cumulative basis.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: 40 CFR 60.334(b); Approved custom fuel monitoring plan approved 1/21/2003

Describe: The permittee shall monitor the sulfur and nitrogen content of the fuel being burned in the turbine according to approved monitoring plan.

Testing: None Describe:_____

Record Keeping: COMAR 26.11.03.06C

Describe: The permittee shall maintain on site at least five years of documents certifying the sulfur content of gas received or copies of sulfur in fuel analyses.

Reporting: 40 CFR 60.334 (c) & 60.7 (c)

Describe: The permittee shall submit a summary report of excess emissions semiannually.

Frequency of submittal of the compliance demonstration: As needed

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

Emissions Unit No.: ___EU 1 thru 4__ General Reference: 40 CFR 60.332, NSPS Subpart GG; Part 70 Permit 24-015-00202, Table IV-1,1.1D

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Nitrogen oxide Emissions – NSPS subpart GG which limits each turbine to 75 ppmvd NOx emissions at 15 % O2.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
X Quarterly Monitoring Report: _____
X Annual Compliance Certification: _____
X Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: 40 CFR 60.334(a & (b); 40 CFR 75.70; Approved custom fuel monitoring plan approved 1/21/2003

Describe: The permittee shall operate, calibrate, and maintain a CEMs to monitor NOx emissions. CEMS shall be certified in accordance with 40 CFR Part 75, Appendix A. The permittee shall monitor nitrogen content according to approved monitoring plan.

Testing: None
Describe: The permittee shall perform QA/QC procedures as required by 40 CFR 75.10(a)(2).

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain records necessary to prepare a quarterly emissions report that contains the requirements of COMAR26.11.01.10G(2)(d).

Reporting: COMAR26.11.01.10G(2)(d); COMAR26.11.09.08K (1);40 CFR 60.7
Describe: The permittee shall submit a quarterly summary report to the Department.

Frequency of submittal of the compliance demonstration: _____Quarterly _____

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

Emissions Unit No.: ___EU 1 thru 4__ General Reference: 40 CFR 60.332, NSPS Subpart GG; Part 70 Permit 24-015-00202, Table IV-1,1.1D

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Nitrogen oxide Emissions – BACT shall be the use of natural gas fuel only, operation of advanced dry low-NOx burner technology and use of good combustion practices. Concentration of NOx shall not exceed 9 ppmvd at 15 % O2 on a 30-day rolling average basis for each combustion turbine and the maximum one-hour average shall not exceed 10.5 ppmvd at 15 % O2.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
X Quarterly Monitoring Report: _____
X Annual Compliance Certification: _____
X Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: 40 CFR 60.334(a & (b); 40 CFR 75.70; Approved custom fuel monitoring plan approved 1/21/2003

Describe: The permittee shall operate, calibrate, and maintain a CEMs to monitor NOx emissions. CEMS shall be certified in accordance with 40 CFR Part 75. The permittee shall monitor nitrogen content according to approved monitoring plan.

Testing: None
Describe: The permittee shall perform QA/QC procedures as required by 40 CFR 75.10(a)(2).

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain records necessary to prepare a quarterly emissions report that contains the requirements of COMAR 26.11.01.10G(2)(d).

Reporting: COMAR 26.11.01.10G(2)(d); COMAR 26.11.09.08K(1);40 CFR 60.7
Describe: The permittee shall submit a quarterly summary report to the Department.

Frequency of submittal of the compliance demonstration: _____Quarterly_____

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

Emissions Unit No.: ___EU 1 thru 4__ General Reference: Part 70 Permit 24-015-00202, Table IV-1,1.1D

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Nitrogen Oxide Emissions – LAER for NOx shall be the use of natural gas fuel only, operation of advance dry low-NOx burner technology and use of good combustion practices. Concentration of NOx shall not exceed 9 ppmvd at 15 % O2 on a 30-day rolling average basis for each combustion turbine. Maximum one-hour average shall not exceed 10.5 ppmvd at 15 % O2. NOx emissions shall not exceed 64 lb/hr per turbine and 384 TPY for all four turbines combined on a 12, monthly rolling cumulative basis. Hourly emission limit averages are exempt during startup and shutdown conditions.
Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
X Quarterly Monitoring Report: _____
X Annual Compliance Certification: _____
X Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: CPCN #8821, Condition 9(0)

Describe: The permittee shall operate, calibrate, and maintain a CEMs to monitor NOx emissions. CEMS shall be certified in accordance with 40 CFR Part 75. The permittee shall monitor nitrogen content according to approved monitoring plan.

Testing: COMAR 26.11.03.06C
Describe: The permittee shall perform QA/QC procedures as required by 40 CFR 75.10(a)(2).

Record Keeping: COMAR 26.11.03.06C_____
Describe: The permittee shall maintain records necessary to prepare a quarterly emissions report that contains the requirements of COMAR26.11.01.10G(2)(d).

Reporting: COMAR26.11.01.10G(2)(d); COMAR26.11.09.08K(1);40CFR 60.7
Describe: The permittee shall submit a quarterly summary report to the Department.

Frequency of submittal of the compliance demonstration: _____Quarterly_____

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

Emissions Unit No.: ___EU 1 thru 4__ General Reference: Part 70 Permit 24-015-00202, Table IV-1,1.1E

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of VOC Emissions – VOC emissions shall not exceed 3 lb/hr for each combustion turbine, and 18

TPY for all four combustion turbines combined on a 12-month rolling cumulative basis.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
- Quarterly Monitoring Report: _____
- X Annual Compliance Certification: _____
- X Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee shall perform preventative maintenance to maintain the turbine in a condition such that it operates as designed.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C_____
Describe: The permittee shall maintain at least five years of records of the preventative maintenance that relates to combustion performance.

Reporting: COMAR 26.11.03.06C_____
Describe: Records of preventative maintenance shall be submitted to the Department upon request.

Frequency of submittal of the compliance demonstration: _____Upon Request _____

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

Emissions Unit No.: ___EU 1 thru 4__ General Reference: Part 70 Permit 24-015-00202, Table IV-1,1.1F

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Carbon Monoxide Emissions – BACT for CO shall be good combustion practices.

Concentration of CO shall not exceed 9 ppmvd at 15 % O2 on a 30-day rolling average basis for each turbine. Emissions of CO shall not exceed 32 lb/hr for each combustion turbine and 192 TPY for all four combustion turbines combined on a 12-month rolling average. Hourly emissions limit averages are exempt during startup and shutdown conditions.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
X Quarterly Monitoring Report: _____
X Annual Compliance Certification: _____
X Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee shall operate, calibrate, and maintain a CEMs to monitor CO emissions.

Testing: COMAR 26.11.03.06
Describe: The permittee shall perform QA/QC procedures as required by 40 CFR 60, Appendix F.

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain records of the CO CEMs data.

Reporting: COMAR26.11.03.06C;
Describe: The permittee shall submit a quarterly summary report to the Department of valid CEMs data for CO concentrations. The quarterly summary reports shall satisfy the reporting requirements of COMAS 26.11.01.10G(2)(d).

Frequency of submittal of the compliance demonstration: ____Quarterly_____

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

Emissions Unit No.: ___EU 1 thru 4__ General Reference: Part 70 Permit 24-015-00202, Table IV-1,1.1G

Briefly describe the Emission Standard/Limit or Operational Limitation:
The operating hours for the four combustion turbines combined shall not exceed 8,000 hours per year, on a 12-month rolling cumulative basis.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
- Quarterly Monitoring Report: _____
- X Annual Compliance Certification: _____
- X Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee shall perform preventative maintenance to maintain the turbine as designed.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The Permittee shall record the hours of operation.

Reporting: COMAR26.11.03.06C;
Describe: The permittee shall submit to the Department hours of operation.

Frequency of submittal of the compliance demonstration: _____As Needed

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

Emissions Unit No.: ___EU 1 thru 4__ General Reference: Part 70 Permit 24-015-00202, Table IV-1a,1.1

Briefly describe the Emission Standard/Limit or Operational Limitation:
Hold allowances for annual NO_X, ozone season NO_X, and Group 1 SO_2 that are equivalent to the emissions from each unit at the end of each control period.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
X Quarterly Monitoring Report: _____
 Annual Compliance Certification: _____
 Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: 40 CFR Part 97
Describe:
A. 40 CFR Part 97 Subpart AAAAA-TR NOX Annual Trading Program
The Permittee shall comply with the monitoring requirements found in §97.406, §97.430, and §97.434 for the NOX Annual Trading Program.
B. 40 CFR Part 97 Subpart BBBBB-TR NOX Ozone Season Trading Program
The Permittee shall comply with the monitoring requirements found in §97.506, §97.530, and §97.534 for the NOX Ozone Season Trading Program.
C. 40 CFR Part 97 Subpart CCCCC-TR SO2 Group 1 Trading Program
The Permittee shall comply with the monitoring requirements found in §97.606, §97.630, §97.631, §97.632, and §97.633. The Permittee operates continuous emission monitoring system (CEMS) pursuant to 40 CFR Part 75, Subpart H (for NOX monitoring).
D. 40 CFR Part 97 Subpart GGGGG-TR NOx Group 3 Trading Program
The Permittee shall comply with the monitoring requirements found in §97.1006, §97.1030, §97.1031, §97.1032 and §97.1033 for the NOX Trading Program.

Testing: None Describe: _____

Record Keeping: 40 CFR Part 97
Describe:
A. 40 CFR Part 97 Subpart AAAAA-TR NOx Annual Trading Program
The Permittee shall comply with the recordkeeping requirements found in §97.406, §97.430, and §97.434 for the NOx Annual Trading Program.
B. 40 CFR Part 97 Subpart BBBBB-TR NOx Ozone Season Trading Program

The Permittee shall comply with the recordkeeping requirements found in §97.506, §97.530, and §97.534 for the NOx Ozone Season Trading Program.

C. 40 CFR Part 97 Subpart CCCCC-TR SO_2 Group 1 Trading Program

The Permittee shall comply with the recordkeeping requirements found in §97.606, §97.630, and §97.634.

D. 40 CFR Part 97 Subpart GGGGG-TR NOx Group 3 Trading Program

The Permittee shall comply with the recordkeeping requirements found in §97.1006, §97.1030, and §97.1034.

Reporting: 40 CFR Part 97

Describe:

A. 40 CFR Part 97 Subpart AAAAA-TR NOx Annual Trading Program

The Permittee shall comply with the reporting requirements found in §97.406, §97.430, §97.433 and §97.434 for the NOx Annual Trading Program.

B. 40 CFR Part 97 Subpart BBBBB-TR NOx Ozone Season Trading Program

The Permittee shall comply with the reporting requirements found in §97.506, §97.530, §97.533, and §97.534 for the NOx Ozone Season Trading Program.

C. 40 CFR Part 97 Subpart CCCCC-TR SO_2 Group 1 Trading Program

The Permittee shall comply with the reporting requirements found in §97.606, §97.630, §97.633 and 97.634.

D. 40 CFR Part 97 Subpart GGGGG-TR NOx Group 3 Trading Program

The Permittee shall comply with the reporting requirements found in §97.1006, §97.1030, §97.1033 and 97.1034.

Frequency of submittal of the compliance demonstration: _____As Needed

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

Emissions Unit No.: ___EU 7__ General Reference: COMAR 26.11.09.05A (1); Part 70 Permit 24-015-00202, Table IV-2,2.1A

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Visible Emissions - 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 greater than 20 percent opacity. ___

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: None _____

Describe: _____

Testing: None Describe:_____

Record Keeping: None Describe: _____

Reporting: Part 70 Permit No. 24-015-00202 Section III, Condition # 4
Describe: Permittee shall report incidents of visible emissions in accordance with section III, Condition #4 "Report of Excess Emissions and Deviations ."

Frequency of submittal of the compliance demonstration: ____As needed_____

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

Emissions Unit No.: ___EU 7__ General Reference: Part 70 Permit 24-015-00202, Table IV-2, 2.1B

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Particulate Matter Emissions – For natural gas fired heater, BACT shall be use of natural gas fuel only, operation of low NOx burner technology and application of good combustion controls. In addition, the heater shall be designed to achieve PM emission not to exceed 0.01 lb/MMBTU. The Gas heater shall be designed to achieve PM emissions not to exceed the following: PM10 – 0.09 lb/hr.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee shall perform preventative maintenance to maintain the gas heater as designed.

Testing: None Describe:_____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain at least five years of records for the preventative maintenance that relates to combustion performance.

Reporting: COMAR 26.11.03.06C
Describe: The permittee shall submit records of maintenance to the Department upon request.

Frequency of submittal of the compliance demonstration: _____As needed_____

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

Emissions Unit No.: ___EU 7__ General Reference: Part 70 Permit 24-015-00202, Table IV-2, 2.1C

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Sulfur Oxide Emissions – SO2 Emissions from natural gas heater shall not exceed 0.05 lb/hr.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee shall perform preventative maintenance to maintain the gas heater as designed.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain at least 5 years of records of the preventative maintenance that relates to combustion performance.

Reporting: COMAR26.11.03.06C;
Describe: The permittee shall submit records of maintenance to the Department upon request.

Frequency of submittal of the compliance demonstration: _____As needed_____

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

Emissions Unit No.: ___EU 7__ General Reference: Part 70 Permit 24-015-00202, Table IV-2, 2.1D

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Nitrogen Oxide Emissions – LAER and BACT for the natural gas heater shall be the use of natural gas fuel only, operation of advanced dry low-NOx burner technology, and application of good combustion control. In addition, the heater shall be designed to achieve a NOx emissions rate not to exceed 0.1 lb/MMBTU, 0.9 lb/hr and 3.9 TPY on a 12-month rolling cumulative basis.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee perform preventative maintenance to maintain the gas heater as designed..

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain at least 5 years of records of the preventative maintenance that relates to combustion performance.

Reporting: COMAR26.11.03.06C;
Describe: The permittee shall submit records of maintenance to the Department upon request.

Frequency of submittal of the compliance demonstration: _____As needed_____

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

Emissions Unit No.: ___EU 7__ General Reference: Part 70 Permit 24-015-00202, Table IV-2,2.1E

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Carbon Monoxide Emissions – BACT for the natural gas heater shall be the use of natural gas fuel only, and application of good combustion control. In addition, the heater shall be designed to achieve a CO emission rate not to exceed 0.08 lb/MMBTU and 0.45 lb/hr.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
- ☐ Quarterly Monitoring Report: _____
- X Annual Compliance Certification: _____
- X Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee shall perform preventative maintenance to maintain the gas heater as designed.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain at least 5 years of records of the preventative maintenance that relates to combustion performance.

Reporting: COMAR26.11.03.06C;
Describe: The permittee shall submit records of maintenance to the Department upon request.

Frequency of submittal of the compliance demonstration: Upon Request

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

Emissions Unit No.: ___EU 7__ General Reference: Part 70 Permit 24-015-00202, Table IV-2,2.1F

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of VOC Emissions – The gas heater shall be designed to achieve VOC emissions not to exceed 0.225 lb/hr.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
- Quarterly Monitoring Report: _____
- X Annual Compliance Certification: _____
- X Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee perform preventative maintenance to maintain the gas heater as designed.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain at least 5 years of records of the preventative maintenance that relates to combustion performance.

Reporting: COMAR26.11.03.06C;
Describe: The permittee shall submit records of maintenance to the Department upon request.

Frequency of submittal of the compliance demonstration: _____Upon Request_____

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

Emissions Unit No.: EU – 8 – Emergency Diesel Firewater Engine **General Reference:** Part 70 Permit 24-015-00202, Table IV-3,3.1A

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Visible Emissions - The permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity. 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.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee shall: (1) properly operate and maintain the engine; and (2) maintain an operations manual and preventative maintenance plan.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain a log of maintenance performed on the engine pump that relates to combustion performance.

Reporting: Part 70 Permit 24-015-00202, Section III, Condition #4.
Describe: The permittee shall report incidents in accordance with Section III, Condition #4 "Report of Excess Emissions and Deviations."

Frequency of submittal of the compliance demonstration: _____As needed

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

Emissions Unit No.: EU – 8 – Emergency Diesel Firewater Engine **General Reference:** Part 70 Permit 24-015-00202, Table IV-3,3.1B

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Particulate Matter Emissions – For the diesel firewater engine, BACT shall be application of good combustion controls and lean burn technology. In addition, the engine shall be designed to achieve a PM emission rate not to exceed 0.15 g/BHP. The engine shall be designed to achieve PM emissions not to exceed the following: PM_{10} 0.07 lb/hr.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
- Quarterly Monitoring Report
- X Annual Compliance Certification
- X Semi-Annual Monitoring Report

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee perform preventative maintenance to maintain the engine as designed.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain at least 5 years of records of the preventative maintenance that relates to combustion performance.

Reporting: COMAR26.11.03.06C;
Describe: The permittee shall submit records of maintenance to the Department upon request.

Frequency of submittal of the compliance demonstration: _____Upon Request_____

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

Emissions Unit No.: EU – 8 – Emergency Diesel Firewater Engine **General Reference:** Part 70 Permit 24-015-00202, Table IV-3,3.3.1C

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Sulfur Oxide Emissions – 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: distillate fuel oils, 0.3 percent. SO2 emissions from the gas heater shall not exceed 0.29 lb/hr.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
- Quarterly Monitoring Report
- X Annual Compliance Certification
- X Semi-Annual Monitoring Report

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C
Describe: The permittee shall obtain fuel suppliers' certification indicating the fuel complies with the limitation on the sulfur content of the fuel or obtain sulfur analyses of the fuel that is representative of oil burned.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain on site at least five years of documents certifying the sulfur content of the oil received or copies of the sulfur analyses.

Reporting: COMAR 26.11.03.06C;
Describe: The permittee shall report fuel supplier certifications or sulfur analyses to the Department upon request.

Frequency of submittal of the compliance demonstration: _____Upon Request_____

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY

ENFORCEABLE REQUIREMENTS

Emissions Unit No.: EU – 8 – Emergency Diesel Firewater Engine **General Reference:** Part 70 Permit 24-015-00202, Table IV-3,3.1D

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Nitrogen Oxide Emissions - LAER and BACT for the emergency diesel firewater engine shall be the application of good combustion controls, lean bum technology. and operation of the unit for a period not to exceed 100 hours per year on a 12-month rolling cumulative basis. In addition, the engine shall be designed to achieve NOx emissions not to exceed 10.5 g/BHP. The engine shall be designed to achieve NOx emissions not to exceed 0.46 lb/hr and 0.02 TPY on a 12-month rolling cumulative basis.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:
- ☐ Quarterly Monitoring Report
- X Annual Compliance Certification
- X Semi-Annual Monitoring Report

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee perform preventative maintenance to maintain the engine as designed.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain at least 5 years of records of the preventative maintenance that relates to combustion performance.

Reporting: COMAR26.11.03.06C;
Describe: The permittee shall submit records of maintenance to the Department upon request.

Frequency of submittal of the compliance demonstration: Upon Request

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

Emissions Unit No.: EU – 8 – Emergency Diesel Firewater Engine **General Reference:** Part 70 Permit 24-015-00202, Table IV-3,3.1E

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Carbon Monoxide Emissions - BACT for the emergency diesel firewater engine shall application of good combustion control and lean bum technology. In addition, the engine shall be designed to achieve a CO emission rate not to exceed 2.7 g/BHP and 1.19 lb/hr.
Permit Shield Request: Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
- Quarterly Monitoring Report
- X Annual Compliance Certification
- X Semi-Annual Monitoring Report

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee perform preventative maintenance to maintain the engine as designed.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain at least 5 years of records of the preventative maintenance that relates to combustion performance.

Reporting: COMAR26.11.03.06C;
Describe: The permittee shall submit records of maintenance to the Department upon request.

Frequency of submittal of the compliance demonstration: _____Upon Request_____

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

Emissions Unit No.: EU – 8 – Emergency Diesel Firewater Engine **General Reference:** Part 70 Permit 24-015-00202, Table IV-3,3.1F

Briefly describe the Emission Standard/Limit or Operational Limitation:

Control of VOC Emissions -The emergency diesel firewater engine shall be designed to achieve VOC emissions not to exceed 0.03 lb/hr.

Permit Shield Request: Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee perform preventative maintenance to maintain the engine as designed.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain at least 5 years of records of the preventative maintenance that relates to combustion performance.

Reporting: COMAR 26.11.03.06C;
Describe: The permittee shall submit records of maintenance to the Department upon request.

Frequency of submittal of the compliance demonstration: _____Upon Request_____

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

Emissions Unit No.: EU – 8 – Emergency Diesel Firewater Engine **General Reference:** Part 70 Permit 24-015-00202, Table IV-3,3.1G; 40 CFR Part 63, Subpart ZZZZ, Section 63.6603(a)& Table 2d

Briefly describe the Emission Standard/Limit or Operational Limitation:

Control of HAP Emissions – If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements as follows: 40 CFR 63.6603(a), 40 CFR 63.6605(a), 40 CFR 63.6605(b) and 40 CFR 63.6640(f):

For Emergency CI RICE. each RICE must meet the work practice standards as follows: You must meet requirement, except during periods of startup

a. Change oil and filter every 500 hours of operation or annually, whichever comes first;

b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and

c. Inspect all hoses and belts every 500 hours of operation or annually. whichever comes first, and replace as necessary.

You may operate your emergency stationary RICE for any reason provided the hours are less than 100 in a calendar year.

Permit Shield Request: Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C; 40 CFR63.6625(e) & (f)

Describe: The engine must be operated and maintained according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution practice for minimizing emissions. A non-resettable hour meter must be installed on the engine if one is not already installed. Minimize the time spent at idle during startup and minimize the startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C; 40 CFR 63.6655(a)(2); 63.6655(a)(4); 63.6655(a)(5); 63.6655(d); 63.6655(e); 63.6655(f)
Describe: The Permittee must keep records of the occurrence and duration of each malfunction of operation or the air pollution control and monitoring equipment.

The Permittee must keep records of all maintenance performed on the air pollution control and monitoring equipment.

The Permittee must keep records of action taken during periods of malfunction to minimize emissions including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

The Permittee must keep a copy of the manufacturer's written instructions or maintenance plan for the engine.

The Permittee must keep records of the maintenance conducted on the engine.

The Permittee must keep records of the hours of operation of the engine recorded through the non-resettable hour meter. Records documenting the date, start time, end time, and reason for operation must also be kept.

Reporting: COMAR26.11.03.06C;
Describe: The permittee shall submit records of maintenance to the Department upon request. The permittee must comply with 40 CFR 63.6650 in the event it is not possible to comply with management practice standards.

Frequency of submittal of the compliance demonstration: _____Upon Request_____

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

Emissions Unit No.: EU – 9 – Switchyard Emergency Diesel Generator **General Reference:** Part 70 Permit 24-015-00202, Table IV-4,4.1A

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Visible Emissions - The permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity. 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.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:
- ☐ Quarterly Monitoring Report
- X Annual Compliance Certification
- X Semi-Annual Monitoring Report

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C

Describe: The permittee shall: (1) properly operate and maintain the engine; and (2) maintain an operations manual and preventative maintenance plan.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain a log of maintenance performed on the engine pump that relates to combustion performance.

Reporting: Part 70 Permit 24-015-00202, Section III, Condition #4.
Describe: The permittee shall report incidents in accordance with Section III, Condition #4 "Report of Excess Emissions and Deviations."

Frequency of submittal of the compliance demonstration: _____As needed

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

Emissions Unit No.: EU – 9 – Switchyard Emergency Diesel Generator
General Reference: Part 70 Permit 24-015-00202, Table IV-4,4.1B

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Sulfur Oxide Emissions – 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: distillate fuel oils, 0.3 percent.

Permit Shield Request: __Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:
- Quarterly Monitoring Report
- X Annual Compliance Certification
- X Semi-Annual Monitoring Report

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C
Describe: The permittee shall obtain fuel suppliers' certification indicating the fuel complies with the limitation on the sulfur content of the fuel or obtain sulfur analyses of the fuel that is representative of oil burned.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C
Describe: The permittee shall maintain on site at least five years of documents certifying the sulfur content of the oil received or copies of the sulfur analyses.

Reporting: COMAR26.11.03.06C;
Describe: The permittee shall report fuel supplier certifications or sulfur analyses to the Department upon request.

Frequency of submittal of the compliance demonstration: _____Upon Request_____

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

Emissions Unit No.: EU – 9 – Switchyard Emergency Diesel Generator **General Reference:** Part 70 Permit 24-015-00202, Table IV-4,4.1C; 40 CFR Part 63, Subpart ZZZZ Table 2d, Section 63.6603(a), Section 63.6605(a) & (b) & 63.6640(f)

Briefly describe the Emission Standard/Limit or Operational Limitation:

Control of HAP Emissions – If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements as follows: 40 CFR 63.6603(a), 40 CFR 63.6605(a), 40 CFR 63.6605(b), 40 CFR 63.6640(f):

For Emergency CI RICE. Each RICE must meet the work practice standards as follows: You must meet requirement, except during periods of startup

a. Change oil and filter every 500 hours of operation or annually, whichever comes first;

b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and

c. Inspect all hoses and belts every 500 hours of operation or annually. whichever comes first, and replace as necessary.

You may operate your emergency stationary RICE for any reason provided the hours are less than 100 in a calendar year.

Permit Shield Request: Yes_____

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: COMAR 26.11.03.06C; 40 CFR 63.6625(e), (f), (h), & Table 6

Describe: The engine must be operated and maintained according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution practice for minimizing emissions. A non-resettable hour meter must be installed on the engine if one is not already installed. Minimize the time spent at idle during startup and minimize the startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Testing: None Describe: _____

Record Keeping: COMAR 26.11.03.06C; 40 CFR 63.6655(a)(2); 63.6655(a)(4); 63.6655(a)(5); 63.6655(d); 63.6655(e); 63.6655(f)
Describe: The permittee must keep a copy of the manufacturers written instructions or maintenance plan for the engine.

The permittee must keep records of the maintenance conducted on the engine.

The permittee must keep records of the hours of operation of the engine recorded through the non-resettable hour meter. Records documenting the date, start time, end time, and reason for operation must also be kept.

Reporting: COMAR 26.11.03.06C;
Describe: The permittee shall submit records of maintenance to the Department upon request. The permittee must comply with 40 CFR 63.6650 in the event it is not possible to comply with management practice standards.

Frequency of submittal of the compliance demonstration: _____Upon Request_____

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

Emissions Unit No.: EU 10 General Reference: Part 70 Permit 24-015-00202, Table IV-5,5.1A

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Visible Emissions - 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 greater than 20 percent opacity.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

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

Methods used to demonstrate compliance:

Monitoring: None Describe: _____

Testing: None Describe: _____

Record Keeping: None Describe: _____

Reporting: Part 70 Permit No. 24-015-00202 Section III, Condition # 4
Describe: Permittee shall report incidents in accordance with section III, Condition #4 "Report of Excess Emissions and Deviations ."

Frequency of submittal of the compliance demonstration: As needed

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

Emissions Unit No.: EU 10 General Reference: Part 70 Permit 24-015-00202, Table IV-5,5.1B

Briefly describe the Emission Standard/Limit or Operational Limitation:
Control of Nitrogen Oxide Emissions – (a) "For purposes of this regulation, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation. (b) The operator training course sponsored by the Department shall include an in-house training course that is approved by the Department."

Requirements for Fuel-Burning Equipment with a Rated Heat Input Capacity of 100 Million Btu Per Hour or Less. – "A person who owns or operates fuel-burning equipment with a rated heat input capacity of 100 Million Btu per hour or less shall:
(1) Submit to the Department an identification of each affected installation, the rated heat input capacity of each installation, and the type of fuel burned in each; (2) Perform a combustion analysis for each installation at least once each year and optimize combustion based on the analysis; (3) Maintain the results of the combustion analysis at the site for at least 2 years and make this data available to the Department and the EPA upon request; (4) Once every 3 years, require each operator of the installation to attend operator training programs on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and (5) Prepare and maintain a record of training program attendance for each operator at the site, and make these records available to the Department upon request."
Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:
- ☐ Quarterly Monitoring Report: _____
- X Annual Compliance Certification: _____
- X Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:
Monitoring: COMAR 26.11.03.06C Describe: The permittee shall perform preventative maintenance to maintain the gas heater as designed. Testing: COMAR 26.11.09.08E(2) Describe: The Permittee shall perform combustion analysis on the heater at least once per year and optimize combustion based on the analysis. Record Keeping: COMAR 26.11.03.06C & 26.11.09.09E(3) & (5) Describe: The Permittee shall maintain the following records on-site for a period of at least five years: (1) Training program attendance for each operator at the site and make these records available to the Department upon request. (2) Results of combustion analysis. Reporting: COMAR 26.11.09.08E(3) & (5); Describe: The Permittee shall submit: (1) The results of combustion analysis to the department and the EPA upon request. (2) A record of training program attendance for each operator to the Department upon request.

Frequency of submittal of the compliance demonstration: _____As needed_____

SECTION 3C. OBSOLETE, EXTRANEOUS, OR INSIGNIFICANT PERMIT CONDITIONS

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

Emissions Unit No.: N/A **Permit to Construct No. N/A**

Emissions Point No.	Date Permit Issued	Condition No.	Brief Description of Condition and Reason for Exclusion
N/A	N/A	N/A	N/A

SECTION 3D. ALTERNATE OPERATING SCENARIOS

Emissions Unit No: N/A

Briefly describe any alternate operating scenarios. Assign a number to each scenario for identification purposes.

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

Scenario No.: _____N/A_____

Emissions Unit No.: _____ General Reference: _____

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

_____

_____

_____

_____

_____

_____

Compliance Demonstration

Methods used to demonstrate compliance:

Monitoring: Reference _____ Describe: _____

_____

_____

_____

Testing: Reference _____ Describe: _____

_____

_____

_____

Record Keeping: Reference _____ Describe: _____

_____

_____

_____

Reporting: Reference _____ Describe: _____

_____

_____

_____

Frequency of submittal of the compliance demonstration: _____

SECTION 4. CONTROL EQUIPMENT

1. Associated Emissions Units No.: N/A	2. Emissions Point No.: N/A
3. Type and Description of Control Equipment:	

4. Pollutants Controlled:	Control Efficiency:

5. Capture Efficiency:

SECTION 5. SUMMARY SHEET OF POTENTIAL EMISSIONS

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

Pollutant	NO_X	CO	PM-10	VOC	SO_2
CAS Number					
Emissions Unit #	No changes to existing equipment or potential emissions.				
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Fugitive Emissions					
Total					

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

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

1. Applicable Requirement: N/A

2. Brief Description:

_____

_____

_____

3. Reasons for Proposed Exemption or Justification of Non-applicability:

_____

_____

_____

_____

_____

SECTION 7. COMPLIANCE SCHEDULE FOR NONCOMPLYING EMISSIONS UNITS

1. Emissions Unit # N/A	Anticipated Compliance Date
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.

STATE-ONLY ENFORCEABLE REQUIREMENTS

Facility Information:

Name of Facility: Rock Springs Generation Facility	County: Cecil
Premises Number: 015-00202-5	
Street Address: 1423 Rock Springs Road	
24-hour Emergency Telephone Number for Air Pollution Matters: Rock Springs Control Room : 410 423 4213	
Type of Equipment (List Significant Units):	
EU-1 thru EU-4: 190 MW General Electric 7FA simple-cycle gas turbines	
EU -7: 9 MMBtu/hr Natural Gas Heater	
EU- 8: 200 hp diesel fire pump	
EU- 9: 100 kw Switchyard emergency diesel generator	
EU- 10: 7.5 MMBtu/hr Natural Gas Heater	

CITATION TO AND DESCRIPTION OF APPLICABLE STATE-ONLY ENFORCEABLE REQUIREMENTS

Registration No.: 24-015-00202

Emissions Unit No.: Facility Wide **General Reference:** COMAR 26.11.06.08

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

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

Methods used to demonstrate compliance:

All emission units will be operated and maintained to provide for proper combustion as the units were designed.

CITATION TO AND DESCRIPTION OF APPLICABLE STATE-ONLY ENFORCEABLE REQUIREMENTS

Registration No.: 24-015-00202

Emissions Unit No.: Facility Wide **General Reference:** COMAR 26.11.06.08

Briefly describe the requirement and the emissions limit (if applicable):
Odors. "A person may not cause or permit the discharge into the atmosphere of gasses, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created."

Methods used to demonstrate compliance:

All emission units will be operated and maintained to provide for proper combustion as the units were designed.

APPENDIX B. INSIGNIFICANT ACTIVITIES

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

Insignificant Activities

There are no insignificant activities for this site.

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. ___ Stationary internal combustion engines with less than 500 brake horsepower (373 kilowatts)of power output

(4) _X_ Space heaters utilizing direct heat transfer and used solely for comfort heat;

(5) ___ Water cooling towers and water cooling ponds unless used for evaporative cooling of water from barometric jets or barometric condensers, or used in conjunction with an installation requiring a permit to operate;

(6) No. ___ Unheated VOC dispensing containers or unheated VOC rinsing containers of 60 gallons (227 liters) capacity or less;

(7) ____ Commercial bakery ovens with a rated heat input capacity of less than 2,000,000 Btu per hour;

(8) ___ Kilns used for firing ceramic ware, heated exclusively by natural gas, liquefied petroleum gas, electricity, or any combination of these;

(9) ___ Confection cookers where the products are edible and intended for human consumption;

(10) ___ Die casting machines;

(11)___ Photographic process equipment used to reproduce an image upon sensitized material through the use of radiant energy;

(12)___ Equipment for drilling, carving, cutting, routing, turning, sawing, planing, spindle sanding, or disc sanding of wood or wood products;

(13)____ Brazing, soldering, or welding equipment, and cutting torches related to manufacturing and construction activities that emit HAP metals and not directly related to plant maintenance, upkeep and repair or maintenance shop activities;

(14)___ Equipment for washing or drying products fabricated from metal or glass, provided that no VOC is used in the process and that no oil or solid fuel is burned;

(15)___ Containers, reservoirs, or tanks used exclusively for electrolytic plating work, or electrolytic polishing, or electrolytic stripping of brass, bronze, cadmium, copper, iron, lead, nickel, tin, zinc, and precious metals;

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

(a) ___ Dipping operations for applying coatings of natural or synthetic resins that contain no VOC;

(b) ___ Dipping operations for coating objects with oils, waxes, or greases, and where no VOC is used;

(c) _X_ Storage of butane, propane, or liquefied petroleum, or natural gas;

(d) No. _X_ Storage of lubricating oils:

(e) No. ___ Unheated storage of VOC with an initial boiling point of 300 °F (

(f) No. _2_ 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. ___ The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;

(17) ___ Gaseous fuel-fired or electrically heated furnaces for heat treating glass or metals, the use of which does not involve molten materials;

(18) ___Crucible furnaces, pot furnaces, or induction furnaces, with individual capacities of 1,000 pounds (454 kilograms) or less each, in which no sweating or distilling is conducted, or any fluxing is conducted using

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

(a) ___ Aluminum or any alloy containing over 50 percent aluminum, if no gaseous chloride compounds, chlorine, aluminum chloride, or aluminum fluoride is used;

(b) ___ Magnesium or any alloy containing over 50 percent magnesium;

(c) ___ Lead or any alloy containing over 50 percent lead;

(d) ___ Tin or any alloy containing over 50 percent tin;

(e) ___ Zinc or any alloy containing over 50 percent zinc;

(f) ___ Copper;

(g) ____ Precious metals;

(19) ____ Charbroilers and pit barbecues as defined in COMAR 26.11.18.01 with a total cooking area of 5 square feet (0.46 square meter) or less;

(20) ___ First aid and emergency medical care provided at the facility, including related activities such as sterilization and medicine preparation used in support of a manufacturing or production process;

(21) ____ 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;

(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. ___ _____

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. ___ _____

APPENDIX C. TITLE V APPLICATION COMPLETENESS CHECKLIST

VI .Application Completeness Checklist

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

Cover Page

(X) Name and address of owner or operator, including telephone number.

(X) Name and address of facility, including the plant manager's name and telephone number.

(X) A 24-hour emergency telephone number for air pollution matters.

Section 1 CERTIFICATION STATEMENTS

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

Section 2 FACILITY DESCRIPTION SUMMARY

(X) A brief description of each of the source's process(es), including all applicable SIC codes and end products.

(N/A) Flow diagrams indicating all emissions units, emission points, and control devices.

(N/A) A plot plan of the entire facility.

(X) Emission Certification Report.

(X) General Emissions Information.

Section 3 EMISSIONS UNIT DESCRIPTIONS –

This section must be completed for each emissions unit.

Part A

(X) Emissions unit number.

(X) Detailed description of unit, including all emission points.

(X) Federally enforceable limit(s) on the operating schedule.

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

Part B

(X) A citation and description of each federally enforceable requirement, including all emission standards, for each emissions unit.

(X) A statement of compliance demonstration techniques for each requirement, including a description of monitoring, record keeping, reporting requirements, and test methods.

(X) The frequency of submittal of the compliance demonstration during the permit term.

Part C N/A

( ) Emissions unit number.

( ) Permit to construct number.

( ) Emissions point number(s).

( ) Date(s) the permit to construct was issued.

( ) Condition number(s) as indicated on the permit to construct.

( ) Description of the permit condition(s) and the reason(s) why they are believed to be obsolete, extraneous, or insignificant.

Part D N/A

( ) Description of all alternate operating scenarios that apply to an emissions unit.

( ) Number assigned to each scenario.

( ) Emissions unit number.

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

Part E N/A

( ) A citation and description of each federally enforceable requirement triggered by an operating scenario, including all emission standards, for each emissions unit.

( ) As an attachment, the date and results of the most recent compliance demonstration for each emission standard and/or emissions certification report with relevant supporting documentation.

( ) A statement of compliance demonstration techniques for each requirement, including a description of monitoring, record keeping, reporting requirements, and test methods.

( ) The frequency of submittal of the compliance demonstration during the permit term.

Section 4 CONTROL EQUIPMENT

(N/A) The type of each piece of air pollution control equipment

(N/A) The capture and control efficiencies of the control equipment.

Section 5 SUMMARY SHEET OF POTENTIAL EMISSIONS N/A

( ) Quantity of potential emissions for criteria pollutants and HAPs emitted in tons per year for each emissions unit.

( ) Fugitive emission estimations for the entire facility for criteria pollutants and HAPs emitted in tons per year.

( ) Basis for all emission calculations.

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

(X) An explanation of the proposed exemption.

Section 7 COMPLIANCE SCHEDULE FOR NONCOMPLYING EMISSIONS UNITS

(N/A) Identification of emissions unit(s) not in compliance, including the requirement being violated and the effective compliance date.

(N/A) Detailed description of methods to be used to achieve compliance.

(N/A) A schedule of remedial measures, including an enforceable sequence of actions with milestones.

Attachment

(X) Checklist of Insignificant Activities

( ) CAM Plan (If Applicable)

APPENDIX D. 2022 EMISSIONS CERTIFICATION REPORT WITH REVISIONS

2022 Updated Emissions Inventory - Essential Power Rock Springs, LLC
Equipment Summary

Equipment	Rating	Units
EU-1	1,922	MMBtu/hr
EU-2	1,922	MMBtu/hr
EU-3	1,922	MMBtu/hr
EU-4	1,922	MMBtu/hr
EU-7	9	MMBtu/hr
EU-8	200	hp-hr
EU-8	1.40	MMBtu/hr
EU-9	100	kW
EU-9	0.96	MMBtu/hr
EU-10	7.5	MMBtu/hr

2022 Updated Emissions Inventory - Essential Power Rock Springs, LLC
Emissions Summary

Pollutant	Emissions (tpy)								Total Facility
	EU-7	EU-10	EU-9	EU-8	EU-1	EU-2	EU-3	EU-4	
Total PM	0.022	0.001	0.001	0.001	1.730	1.900	2.260	2.080	7.995
Total PM_{10}	0.022	0.001	0.001	0.001	1.730	1.900	2.260	2.080	7.994
Total $PM_{2.5}$	0.022	0.001	0.001	0.001	1.730	1.900	2.260	2.080	7.994
$PM_{10\text{-FIL}}$	0.005	0.000	5.18E-04	6.87E-04	0.50	0.55	0.65	0.60	2.307
$PM_{2.5\text{-FIL}}$	0.005	0.000	5.01E-04	6.63E-04	0.50	0.55	0.65	0.60	2.307
$PM_{Condensable}$	0.016	0.001	8.05E-05	1.07E-04	1.23	1.35	1.61	1.48	5.687
SO_2	0.001	0.000	5.60E-04	3.49E-03	0.16	0.17	0.21	0.19	0.736
NO_X	0.216	0.027	8.52E-03	5.56E-02	8.46	10.02	11.04	10.85	40.677
VOC	0.012	0.003	6.96E-04	3.70E-04	0.55	0.60	0.72	0.66	2.546
CO	0.172	0.046	1.84E-03	1.43E-02	2.58	2.16	2.87	2.45	10.295
CO_2	251.7	65.5	0.3	5.4	31,050.0	34,216.0	40,613.0	37,545.0	143,746.9
CH_4	0.005	0.001	1.28E-05	2.19E-04	5.20E-01	5.80E-01	6.80E-01	6.30E-01	2.416
N_2O	0.000	0.000	2.55E-06	4.37E-05	5.20E-02	5.80E-02	6.80E-02	6.30E-02	0.242
HAPs	3.99E-03	1.04E-03	7.81E-06	1.28E-04	2.93E-01	3.22E-01	3.82E-01	3.52E-01	1.355

Ozone Season Emissions[1]

Pollutant	Emissions (lbs/day)								Total Emissions
	EU-7	EU-10	EU-9	EU-8	EU-1	EU-2	EU-3	EU-4	
NO_X	2.043	0.261	0.047	0.304	434.030	473.690	397.920	482.330	1,790.62
VOC	0.110	0.029	0.004	0.002	30.740	31.040	31.270	32.020	125.215

[1]Ozone season is April 1 - September 30, or 183 days.

Winter Emissions[2]

Pollutant	Emissions (lbs/day)								Total Emissions
	EU-7	EU-10	EU-9	EU-8	EU-1	EU-2	EU-3	EU-4	
CO	1.89E-01	5.05E-02	1.01E-02	0.078					0.328

[2]Winter is January , February, and December, or 90 days.

2022 Updated Emissions Inventory - Essential Power Rock Springs, LLC
Heater Emissions

Emission Source Information: EU-7 and EU-10

Emission Source	Rating (MMBTU/hr)	Natural Gas (MMBtu/yr)[1]	Natural Gas Hours (hours/yr)	Natural Gas Ozone Season Hours (hrs)	Natural Gas Winter Hours (hrs)
EU-7	9	4,312	596.58	517.262	29.36
EU-10	7.5	1,122	186.25	161.487	9.17

[1] Natural gas consumption is based on fuel flow meter measurements (ES-7) and hours of operation (ES-10).

Natural Gas Heater Emissions

Emissions	Emission Factor			Annual Emissions (tpy)		Ozone Season Emissions (lb/day)[1]		Winter Emissions (lb/day)[2]	
	Factor	Unit	Source	EU-7	EU-10	EU-7	EU-10	EU-7	EU-10
$PM/PM_{10}/PM_{2.5}$	0.010	lb/MMBtu	Permit Table IV-2, 2.1(B), assume $PM=PM_{10}=PM_{2.5}$.	2.16E-02	1.27E-03	--	--	--	--
SO_2	0.0006	lb/MMBtu	AP-42 Table 1.4-2	1.27E-03	3.30E-04	--	--	--	--
NO_X - EU-7	0.1000	lb/MMBtu	Permit Table IV-2, 2.1(D)	2.16E-01	--	2.04	--	--	--
NO_X - EU-10	0.0490	lb/MMBtu	AP-42 Table 1.4-1, LNB	--	2.75E-02		2.61E-01	--	--
VOC	0.005	lb/MMBtu	AP-42 Table 1.4-2	1.16E-02	3.02E-03	0.11	0.03	--	--
CO - EU-7	0.08	lb/MMBtu	Permit Table IV-2, 2.1(E)	1.72E-01	--	--	--	0.19	--
CO - EU-10	0.08	lb/MMBtu	AP-42 Table 1.4-2	--	4.62E-02	--	--	--	0.05
CO_2	53.06	kg/MMBtu	40 CFR 98 Subpart C	251.692	65.48	--	--	--	--
CH_4	1.00E-03	kg/MMBtu	40 CFR 98 Subpart C	4.74E-03	1.23E-03	--	--	--	--
N_2O	1.00E-04	kg/MMBtu	40 CFR 98 Subpart C	4.74E-04	1.23E-04	--	--	--	--
Acenaphthene	1.80E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	3.80E-09	9.90E-10	--	--	--	--
Acenaphthylene	1.80E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	3.80E-09	9.90E-10	--	--	--	--
Anthracene	2.40E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	5.07E-09	1.32E-09	--	--	--	--
Arsenic	2.00E-04	lb/MMscf	AP-42 Tables 1.4-3, -4	4.23E-07	1.10E-07	--	--	--	--
Benz(a)anthracene	1.80E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	3.80E-09	9.90E-10	--	--	--	--
Benzene	2.10E-03	lb/MMscf	AP-42 Tables 1.4-3, -4	4.44E-06	1.15E-06	--	--	--	--
Benzo(a)pyrene	1.20E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	2.54E-09	6.60E-10	--	--	--	--
Benzo(b)fluoranthene	1.80E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	3.80E-09	9.90E-10	--	--	--	--
Benzo(g,h,i)perylene	1.20E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	2.54E-09	6.60E-10	--	--	--	--
Benzo(k)fluoranthene	1.80E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	3.80E-09	9.90E-10	--	--	--	--
Beryllium	1.20E-05	lb/MMscf	AP-42 Tables 1.4-3, -4	2.54E-08	6.60E-09	--	--	--	--
Cadmium	1.10E-03	lb/MMscf	AP-42 Tables 1.4-3, -4	2.33E-06	6.05E-07	--	--	--	--
Chromium	1.40E-03	lb/MMscf	AP-42 Tables 1.4-3, -4	2.96E-06	7.70E-07	--	--	--	--
Chrysene	1.80E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	3.80E-09	9.90E-10	--	--	--	--
Cobalt	8.40E-05	lb/MMscf	AP-42 Tables 1.4-3, -4	1.78E-07	4.62E-08	--	--	--	--
Dibenzo(a,h)anthracene	1.20E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	2.54E-09	6.60E-10	--	--	--	--
Dichlorobenzene	0.0012	lb/MMscf	AP-42 Tables 1.4-3, -4	2.54E-06	6.60E-07	--	--	--	--
7,12-Dimethylbenz(a)anthracene	1.60E-05	lb/MMscf	AP-42 Tables 1.4-3, -4	3.38E-08	8.80E-09	--	--	--	--
Fluoranthene	3.00E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	6.34E-09	1.65E-09	--	--	--	--
Fluorene	2.80E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	5.92E-09	1.54E-09	--	--	--	--
Formaldehyde	7.50E-02	lb/MMscf	AP-42 Tables 1.4-3, -4	1.59E-04	4.12E-05	--	--	--	--
Hexane	1.80E+00	lb/MMscf	AP-42 Tables 1.4-3, -4	3.80E-03	9.90E-04	--	--	--	--
Indeno(1,2,3-cd)pyrene	1.80E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	3.80E-09	9.90E-10	--	--	--	--
Lead	5.00E-04	lb/MMscf	AP-42 Tables 1.4-3, -4	1.06E-06	2.75E-07	--	--	--	--
Manganese	3.80E-04	lb/MMscf	AP-42 Tables 1.4-3, -4	8.03E-07	2.09E-07	--	--	--	--
Mercury	2.60E-04	lb/MMscf	AP-42 Tables 1.4-3, -4	5.50E-07	1.43E-07	--	--	--	--
2-Methylnaphthalene	2.40E-05	lb/MMscf	AP-42 Tables 1.4-3, -4	5.07E-08	1.32E-08	--	--	--	--
3-Methylchloranthrene	1.80E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	3.80E-09	9.90E-10	--	--	--	--
Naphthalene	6.10E-04	lb/MMscf	AP-42 Tables 1.4-3, -4	1.29E-06	3.35E-07	--	--	--	--
Nickel	2.10E-03	lb/MMscf	AP-42 Tables 1.4-3, -4	4.44E-06	1.15E-06	--	--	--	--
Phenanthrene	1.70E-05	lb/MMscf	AP-42 Tables 1.4-3, -4	3.59E-08	9.35E-09	--	--	--	--
Pyrene	5.00E-06	lb/MMscf	AP-42 Tables 1.4-3, -4	1.06E-08	2.75E-09	--	--	--	--
Selenium	2.40E-05	lb/MMscf	AP-42 Tables 1.4-3, -4	5.07E-08	1.32E-08	--	--	--	--
Toluene	3.40E-03	lb/MMscf	AP-42 Tables 1.4-3, -4	7.19E-06	1.87E-06	--	--	--	--
			Total HAPs	3.99E-03	1.04E-03				

[1]Ozone season is April 1 - September 30, or 183 days.

[2]Winter is January , February, and December, or 90 days.

2022 Updated Emissions Inventory - Essential Power Rock Springs, LLC
Fire Pump Emissions

Emission Source Information: EU-8

	Rating (MMBTU/hr)	Rating (hp)	Fuel Oil (gallons/yr) [1]	Operating Hours (hours/yr)	Ozone Season Hours (hrs)	Winter Hours (hrs)
EU-8	1.40	200	480	24	12.03	5.92

[1] Fuel oil consumption for each engine based on measurement of consumed fuel oil from fuel oil storage tank.

Fire Pump Emissions

Emissions	Emission Factor			Annual Emissions (tpy)	Ozone Season Emissions (lbs/day)[1]	Winter Emissions (lbs/day)[2]
	Factor	Unit	Source	EU-8	EU-8	EU-8
PM	0.18	g/hp-hr	Calculated from PM_{10} using AP-42 Table 3.4-2 ratio of PM10 to total PM.	9.65E-04	--	--
PM_{10}	0.15	g/hp-hr	Data from Detroit Diesel Corp.	7.94E-04	--	--
$PM_{2.5}$	0.15	g/hp-hr	Calculated from PM_{10} using AP-42 Table 3.4-2 ratio of PM10 to $PM_{2.5}$.	7.70E-04	--	--
$PM_{Condensable}$	0.02	g/hp-hr	Calculated using ratio of condensable PM to total PM_{10} in AP-42 Table 3.4-2.	1.07E-04	--	--
SO_2	0.66	g/hp-hr	Data from Detroit Diesel Corp.	3.49E-03	--	--
Lead	--	--	--	--	--	--
NO_X	10.50	g/hp-hr	Data from Detroit Diesel Corp.	5.56E-02	0.304	--
VOC	0.07	g/hp-hr	Data from Detroit Diesel Corp.	3.70E-04	2.03E-03	--
CO	2.70	g/hp-hr	Data from Detroit Diesel Corp.	1.43E-02	--	0.078
CO_2	73.96	kg/MMBtu	40 CFR 98 Subpart C	5.39E+00	--	--
CH_4	3.00E-03	kg/MMBtu	40 CFR 98 Subpart C	2.19E-04	--	--
N_2O	6.00E-04	kg/MMBtu	40 CFR 98 Subpart C	4.37E-05	--	--
Acenaphthene	1.42E-06	lb/MMBtu	AP-42 Table 3.3-2	4.70E-08	--	--
Acenaphthylene	5.06E-06	lb/MMBtu	AP-42 Table 3.3-2	1.68E-07	--	--
Acetaldehyde	7.67E-04	lb/MMBtu	AP-42 Table 3.3-2	2.54E-05	--	--
Acrolein	9.25E-05	lb/MMBtu	AP-42 Table 3.3-2	3.06E-06	--	--
Anthracene	1.87E-06	lb/MMBtu	AP-42 Table 3.3-2	6.19E-08	--	--
Benzo(a)anthracene	1.68E-06	lb/MMBtu	AP-42 Table 3.3-2	5.56E-08	--	--
Benzene	9.33E-04	lb/MMBtu	AP-42 Table 3.3-2	3.09E-05	--	--
Benzo(a)pyrene	1.88E-07	lb/MMBtu	AP-42 Table 3.3-2	6.23E-09	--	--
Benzo(b)fluoranthene	9.91E-08	lb/MMBtu	AP-42 Table 3.3-2	3.28E-09	--	--
Benzo(g,h,l)perylene	4.89E-07	lb/MMBtu	AP-42 Table 3.3-2	1.62E-08	--	--
Benzo(k)fluoranthene	1.55E-07	lb/MMBtu	AP-42 Table 3.3-2	5.13E-09	--	--
1,3-Butadiene	3.91E-05	lb/MMBtu	AP-42 Table 3.3-2	1.29E-06	--	--
Chrysene	3.53E-07	lb/MMBtu	AP-42 Table 3.3-2	1.17E-08	--	--
Dibenzo(a,h)anthracene	5.83E-07	lb/MMBtu	AP-42 Table 3.3-2	1.93E-08	--	--
Fluoranthene	7.61E-06	lb/MMBtu	AP-42 Table 3.3-2	2.52E-07	--	--
Fluorene	2.92E-05	lb/MMBtu	AP-42 Table 3.3-2	9.67E-07	--	--
Formaldehyde	1.18E-03	lb/MMBtu	AP-42 Table 3.3-2	3.91E-05	--	--
Indeno(1,2,3-cd)pyrene	3.75E-07	lb/MMBtu	AP-42 Table 3.3-2	1.24E-08	--	--
Naphthalene	8.48E-05	lb/MMBtu	AP-42 Table 3.3-2	2.81E-06	--	--
Phenanthrene	2.94E-05	lb/MMBtu	AP-42 Table 3.3-2	9.74E-07	--	--
Pyrene	4.78E-06	lb/MMBtu	AP-42 Table 3.3-2	1.58E-07	--	--
Toluene	4.09E-04	lb/MMBtu	AP-42 Table 3.3-2	1.35E-05	--	--
Xylene	2.85E-04	lb/MMBtu	AP-42 Table 3.3-2	9.44E-06	--	--
			Total HAPs	1.28E-04		

[1] Ozone season is April 1 - September 30, or 183 days.
[2] Winter is January , February, and December, or 90 days.

2022 Updated Emissions Inventory - Essential Power Rock Springs, LLC
Generator Emissions

Emission Source Information: EU-9

	Rating (MMBTU/hr)	Fuel Oil (gallons/yr)[1]	Operating Hours (hours/yr)	Ozone Season Hours (hrs)	Winter Hours (hrs)
EU-9	0.96	28	4.025	2.02	0.99

[1] Fuel oil consumption for each engine based on estimate of consumed fuel oil from fuel oil storage tanks.

Generator Emissions

Emissions	Emission Factor			Annual Emissions (tpy)	Ozone Season Emissions (lbs/day)[1]	Winter Emissions (lbs/day)[2]
	Factor	Unit	Source	EU-9	EU-9	EU-9
PM [3]	0.38	lb/MMBtu	Calculated from PM_{10} using AP-42 Table 3.4-2 ratio of PM_{10} to total PM.	7.29E-04	--	--
PM_{10}	0.31	lb/MMBtu	AP-42 Table 3.3-1[3]	5.99E-04	--	--
$PM_{2.5}$	0.30	lb/MMBtu	Calculated from PM_{10} using AP-42 Table 3.4-2 ratio of PM_{10} to $PM_{2.5}$.	5.81E-04	--	--
$PM_{Condensable}$	0.04	lb/MMBtu	Calculated using ratio of condensable PM to total PM_{10} in AP-42 Table 3.4-2.	8.05E-05	--	--
SO_2	0.29	lb/MMBtu	AP-42 Table 3.3-1	5.60E-04	--	--
Lead[4]	--	--	--	--	--	--
NO_X	4.41	lb/MMBtu	AP-42 Table 3.3-1	8.52E-03	4.67E-02	--
VOC	0.36	lb/MMBtu	AP-42 Table 3.3-1	6.96E-04	3.81E-03	--
CO	0.95	lb/MMBtu	AP-42 Table 3.3-1	1.84E-03	--	1.01E-02
CO_2	73.96	kg/MMBtu	40 CFR 98 Subpart C	0.31	--	--
CH_4	3.00E-03	kg/MMBtu	40 CFR 98 Subpart C	1.28E-05	--	--
N_2O	6.00E-04	kg/MMBtu	40 CFR 98 Subpart C	2.55E-06	--	--
Benzene	9.33E-04	lb/MMBtu	AP-42 Table 3.3-2	1.80E-06	--	--
Toluene	4.09E-04	lb/MMBtu	AP-42 Table 3.3-2	7.90E-07	--	--
Xylenes	2.85E-04	lb/MMBtu	AP-42 Table 3.3-2	5.51E-07	--	--
Propylene	2.58E-03	lb/MMBtu	AP-42 Table 3.3-2	4.98E-06	--	--
1,3-Butadiene	3.91E-05	lb/MMBtu	AP-42 Table 3.3-2	7.55E-08	--	--
Formaldehyde	1.18E-03	lb/MMBtu	AP-42 Table 3.3-2	2.28E-06	--	--
Acetaldehyde	7.67E-04	lb/MMBtu	AP-42 Table 3.3-2	1.48E-06	--	--
Acrolein	9.25E-05	lb/MMBtu	AP-42 Table 3.3-2	1.79E-07	--	--
Naphthalene	8.48E-05	lb/MMBtu	AP-42 Table 3.3-2	1.64E-07	--	--
Acenaphthylene	5.06E-06	lb/MMBtu	AP-42 Table 3.3-2	9.78E-09	--	--
Acenaphthene	1.42E-06	lb/MMBtu	AP-42 Table 3.3-2	2.74E-09	--	--
Fluorene	2.92E-05	lb/MMBtu	AP-42 Table 3.3-2	5.64E-08	--	--
Phenanthrene	2.94E-05	lb/MMBtu	AP-42 Table 3.3-2	5.68E-08	--	--
Anthracene	1.87E-06	lb/MMBtu	AP-42 Table 3.3-2	3.61E-09	--	--
Fluoranthene	7.61E-06	lb/MMBtu	AP-42 Table 3.3-2	1.47E-08	--	--
Pyrene	4.78E-06	lb/MMBtu	AP-42 Table 3.3-2	9.23E-09	--	--
Benz(a)anthracene	1.68E-06	lb/MMBtu	AP-42 Table 3.3-2	3.25E-09	--	--
Chrysene	3.53E-07	lb/MMBtu	AP-42 Table 3.3-2	6.82E-10	--	--
Benzo(b)fluoranthene	9.91E-08	lb/MMBtu	AP-42 Table 3.3-2	1.91E-10	--	--
Benzo(k)fluoranthene	1.55E-07	lb/MMBtu	AP-42 Table 3.3-2	2.99E-10	--	--
Benzo(a)pyrene	1.88E-07	lb/MMBtu	AP-42 Table 3.3-2	3.63E-10	--	--
Indeno(1,2,3-cd)pyrene	3.75E-07	lb/MMBtu	AP-42 Table 3.3-2	7.25E-10	--	--
Dibenzo(a,h)anthracene	5.83E-07	lb/MMBtu	AP-42 Table 3.3-2	1.13E-09	--	--
Benzo(g,h,l)perylene	1.68E-04	lb/MMBtu	AP-42 Table 3.3-2	3.25E-07	--	--
			Total HAPs	7.81E-06		

[1]Ozone season is April 1 - September 30, or 183 days.
[2]Winter is January , February, and December, or 90 days.
[3]Assume $PM=PM_{10}=PM_{2.5}$
[4]No emission factor available in AP-42 for lead.

2022 Updated Emissions Inventory - Essential Power Rock Springs, LLC
Turbine Emissions

Emission Source Information: EU-1 through EU-4

	Rating (MMBTU/hr)	Natural Gas (MMBtu/yr)[1]	Operating Hours (hours/yr)
EU-1	1,922	570,891	343
EU-2	1,922	626,176	381
EU-3	1,922	744,591	437
EU-4	1,922	686,042	408

[1] Heat input data is monitored continuously for each turbine.

Turbine Emissions

Emissions	Emission Factor			Annual Emissions (tpy)				Emissions (tpy)
	Factor	Unit	Source	EU-1	EU-2	EU-3	EU-4	
1,3-Butadiene	4.30E-07	lb/MMBtu	AP-42 Table 3.1-3	1.23E-04	1.35E-04	1.60E-04	1.47E-04	5.65E-04
Acetaldehyde	4.00E-05	lb/MMBtu	AP-42 Table 3.1-3	1.14E-02	1.25E-02	1.49E-02	1.37E-02	5.26E-02
Acrolein	6.40E-06	lb/MMBtu	AP-42 Table 3.1-3	1.83E-03	2.00E-03	2.38E-03	2.20E-03	8.41E-03
Benzene	1.20E-05	lb/MMBtu	AP-42 Table 3.1-3	3.43E-03	3.76E-03	4.47E-03	4.12E-03	1.58E-02
Ethylbenzene	3.20E-05	lb/MMBtu	AP-42 Table 3.1-3	9.13E-03	1.00E-02	1.19E-02	1.10E-02	4.20E-02
Formaldehyde	7.10E-04	lb/MMBtu	AP-42 Table 3.1-3	2.03E-01	2.22E-01	2.64E-01	2.44E-01	9.33E-01
Naphthalene	1.30E-06	lb/MMBtu	AP-42 Table 3.1-3	3.71E-04	4.07E-04	4.84E-04	4.46E-04	1.71E-03
PAH	2.20E-06	lb/MMBtu	AP-42 Table 3.1-3	6.28E-04	6.89E-04	8.19E-04	7.55E-04	2.89E-03
Propylene Oxide	2.90E-05	lb/MMBtu	AP-42 Table 3.1-3	8.28E-03	9.08E-03	1.08E-02	9.95E-03	3.81E-02
Toluene	1.30E-04	lb/MMBtu	AP-42 Table 3.1-3	3.71E-02	4.07E-02	4.84E-02	4.46E-02	1.71E-01
Xylenes	6.40E-05	lb/MMBtu	AP-42 Table 3.1-3	1.83E-02	2.00E-02	2.38E-02	2.20E-02	8.41E-02
			Total HAPs	2.93E-01	3.22E-01	3.82E-01	3.52E-01	

1423 Rock Springs Road
Rising Sun, MD 21911
(410) 658-1107
(410) 658-0351 Fax

Via email: mdeair.ECR@maryland.gov

March 23, 2023

Maryland Department of the Environment
Air and Radiation Management Administration
1800 Washington Blvd, Suite 715
Baltimore Maryland 21230-1720
Attention: Laramie Daniel, Compliance Program

RE: 2022 Annual Emissions Certification

Dear Mr. Daniel:

Per our Title V Permit, please find attached the 2022 Emissions Certification Reports for the Rock Springs Generating Facility.

ECMPS, EDR and CEMS data are reported where appropriate and calculated values using AP-42 emission factors from Tables 1.4.2 and 2.1.2a are used where indicated.

The facility was in compliance with the requirements found in COMAR 26.11.15 Toxic Air Pollutants for the 2022 calendar year.

If you have any questions, please contact Jobie Seward at (912) 398-4102 or via email jobieseward@cogentrix.com.

Sincerely,

Ralph Jones
General Manager

Attachments

cc: U.S. EPA via email at: R3_APD_Permits@epa.gov

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Blvd, Suite 715 Baltimore, MD 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

Calendar Year: **2022**

	Do Not Write in this Space
A. FACILITY IDENTIFICATION Facility Name **Rock Spring Generating Facility**	Date Received Regional
Address **1423 Rock Springs Road**	Date Received State
City **Rising Sun** County **Cecil** Zip Code **21911**	AIRS Code
B. Briefly describe the major function of the facility	FINDS code
Electric Generation	SIC Code
	Facility Number
	TEMPO ID:
C. SEASONAL PRODUCTION (% if applicable)	Reviewed by:

	Winter (Dec-Feb)	Spring (Mar-May)	Summer (Jun-Aug)	Fall (Sept-Nov)	
	1.4%	3.6%	89.9%	5.0%	

Name Date

D. Explain any increases or decreases in emissions from the previous calendar year for each registration at this facility.

Peaking Electric Generating Facility -Operates intermittently based on power grid demand

E. CONTROL DEVICE INFORMATION (for NOx and VOC sources only)

Control Device	Capture Efficiency	Removal Efficiency
Dry Low NOx Burners on 5-0076	**N/A**	**N/A**
and 5-0079 combustion turbines		
Dry Low NOx on NG Heater 6-0205	**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 20 pages I and certify that the information is correct to the best of my knowledge.

Ralph Jones	General Manager	**3/23/2023**
Name (Print/Type)	**Title**	**Date**
		410-423-4250
Signature		**Telephone**

1/9/2008

FORM 2:

CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT

Facility Name: **Rock Spring Generating Facility** **Facility ID#:** ORIS-7835 **Pollutant:** NOx **Calendar Year:** **2022**

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule (Actual)				TOSD	Operating Schedule			Emissions Methods
				Tons/yr	Lbs/dy	Hrs/dy	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	
Turbine 1			S	8.46	423.15	8	2	17	40	434.03	9	6/7/2022	11/24/2022	C1
5-0076		Natural Gas	F	-	-									
Turbine 2			S	10.02	466.14	8	2	18	43	473.69	9	1/14/2022	12/7/2022	C1
5-0077		Natural Gas	F	-	-									
Turbine 3			S	11.04	432.86	8	2	23	51	397.92	9	3/26/2022	11/30/2022	C1
5-0078		Natural Gas	F	-	-									
Turbine 4			S	10.85	471.83	8	2	19	46	482.33	9	1/14/2022	12/7/2022	C1
5-0079		Natural Gas	F	-	-									
NG Fuel Heater			S	0.10	3.37	0	10	2	62	62.00	3	1/14/2022	12/7/2022	C3
6-0205		Natural Gas	F	-	-									
Totals				**40.48**	**1797.34**					**1849.97**				

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.

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 judgment

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

1/9/2008

FORM 2:

CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT

Facility Name: **Rock Spring Generating Facility** **Facility ID#:** ORIS-7835 **Pollutant:** SO2 **Calendar Year:** **2022**

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule (Actual)				TOSD	Operating Schedule			Emissions Methods
				Tons/yr	Lbs/dy	Hrs/dy	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	
Turbine 1			S	0.16	7.85	8	2	17	40					C1
5-0076		Natural Gas	F	-	-									
Turbine 2			S	0.17	8.00	8	2	18	43					C1
5-0077		Natural Gas	F		-									
Turbine 3			S	0.21	8.04	8	2	23	51					C1
5-0078		Natural Gas	F		-									
Turbine 4			S	0.19	8.26	8	2	19	46					C1
5-0079		Natural Gas	F		-									
NG Fuel Heater			S	0.0013	0.04	0	10	2	28					C3
6-0205		Natural Gas	F		-									
Totals				**0.73**	**32.19**									

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.

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 judgment

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

1/9/2008

FORM 2:

CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT

Facility Name: **Rock Spring Generating Facility** **Facility ID#:** ORIS-7835 **Pollutant:** CO **Calendar Year:** **2022**

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule (Actual)				TOSD	Operating Schedule			Emissions Methods
				Tons/yr	Lbs/dy	Hrs/dy	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	
Turbine 1			S	2.58	128.94	8	2	17	40					C1
5-0076		Natural Gas	F	-	-									
Turbine 2			S	2.16	100.42	8	2	18	43					C1
5-0077		Natural Gas	F		-									
Turbine 3			S	2.87	112.39	8	2	23	51					C1
5-0078		Natural Gas	F		-									
Turbine 4			S	2.45	106.71	8	2	19	46					C1
5-0079		Natural Gas	F		-									
NG Fuel Heater			S	0.18	5.66	1	10	2	28					C3
6-0205		Natural Gas	F		-									
Totals				**10.23**	**454.11**									

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.

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 judgment

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

1/9/2008

FORM 2:

CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT

Facility Name: **Rock Spring Generating Facility** **Facility ID#:** ORIS-7835 **Pollutant:** VOC **Calendar Year:** **2022**

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule (Actual)				TOSD	Operating Schedule			Emissions Methods
				Tons/yr	Lbs/dy	Hrs/dy	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	
Turbine 1			S	0.55	27.43	8	2	17	40	30.74	9	6/7/2022	11/24/2022	C3
5-0076		Natural Gas	F	-	-									
Turbine 2			S	0.60	28.12	8	2	18	43	31.04	9	1/14/2022	12/7/2022	C3
5-0077		Natural Gas	F		-									
Turbine 3			S	0.72	28.14	8	2	23	51	31.27	9	3/26/2022	11/30/2022	C3
5-0078		Natural Gas	F		-									
Turbine 4			S	0.66	28.84	8	2	19	46	32.02	9	1/14/2022	12/7/2022	C3
5-0079		Natural Gas	F		-									
NG Fuel Heater			S	0.01	0.37	0	10	2	28	0.46	9	1/14/2022	12/7/2022	C3
6-0205		Natural Gas	F		-									
Totals				**2.55**	**112.90**					**125.53**				

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.

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 judgment

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

1/9/2008

Form 3: PM **Calendar Year: 2022**

EMISSIONS CERTIFICATION REPORT
Particulate Matter

Facility Name: **Rock Spring Generating Facility** **Facility ID#:** **ORIS-7835** **Pollutant:** **PM Filterable & PM Condensable**

Equipment Description / Registration Number	SCC Number	Fuel		PM - Filterable		PM 10 - Filterable		PM 2.5 - Filterable		PM - Condensable		Operation	Emissions
				tons/yr	lbs/day	tons/yr	lbs/day	tons/yr	lbs/day	tons/yr	lbs/day	Days/yr	Methods
Turbine 1			S	4.96E-01	2.48E+01	4.96E-01	2.48E+01	4.96E-01	2.48E+01	1.23E+00	6.14E+01		C3
5-0076		Natural Gas	F										
Turbine 2			S	5.47E-01	2.54E+01	5.47E-01	2.54E+01	5.47E-01	2.54E+01	1.35E+00	6.29E+01		C3
5-0077		Natural Gas	F										
Turbine 3			S	6.49E-01	2.55E+01	6.49E-01	2.55E+01	6.49E-01	2.55E+01	1.61E+00	6.30E+01		C3
5-0078		Natural Gas	F										
Turbine 4			S	6.00E-01	2.61E+01	6.00E-01	2.61E+01	6.00E-01	2.61E+01	1.48E+00	6.46E+01		C3
5-0079		Natural Gas	F										
NG Fuel Heater			S	3.97E-03	1.28E-01	3.97E-03	1.28E-01	3.97E-03	1.28E-01	1.19E-02	3.84E-01		C3
6-0205		Natural Gas	F										
TOTALS				**2.30**	**101.94**	**2.30**	**101.94**	**2.30**	**101.94**	**5.68**	**252.23**		

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.

Emissions Estimation Method

A1-US 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 based on best guess/engineering judgment
C5-User Calculated based on a State or local agency emission factor
C6-New construction, not operational
C7-Source closed, operation ceased
C8-Computer calculated based on standard

02/21/08

Form 6: Greenhouse Gases

Caldendar Year: **2022**

GREENHOUSE GAS AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT

Pollutant: Carbon Dioxide (CO_2)

CO_2

Facility Name: **Rock Spring Generating Facility** **Facility ID#:** **ORIS-7835**

Equipment Description / Registration Number	Actual Emissions		
	tons/yr	lbs/day	lbs/hr
Turbine 1 5-0076	31,050	1,552,481	181,047
Turbine 2 5-0077	34,216	1,591,461	179,614
Turbine 3 5-0078	40,613	1,592,653	185,870
Turbine 4 5-0079	37,545	1,632,403	184,045
NG Fuel Heater 6-0205	250	8,079	850
TOTALS	143,674	6,377,077	731,427

1. Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

This form must be used to report
Greenhouse gas emissions:
-- carbon dioxide (CO2)
-- methane (CH4)
-- nitrous oxide (N2O)
-- hydrofluorocarbons (HFCs)
-- perfluorocarbons (PFCs)
-- sulfur hexafluoride (SF6)
* Use a separate form for each pollutant.
* Please attach all calculations.

Form 6: Greenhouse Gases Caldendar Year: **2022**

GREENHOUSE GAS AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT

Pollutant: Nitrous Oxide (N_2O)

Facility Name: **Rock Spring Generating Facility** **Facility ID#:** **ORIS-7835** **N_2O**

Equipment Description / Registration Number	Actual Emissions		
	tons/yr	lbs/day	lbs/hr
Turbine 1 5-0076	5.2E-02	2.6E+00	3.0E-01
Turbine 2 5-0077	5.8E-02	2.7E+00	3.0E-01
Turbine 3 5-0078	6.8E-02	2.7E+00	3.1E-01
Turbine 4 5-0079	6.3E-02	2.7E+00	3.1E-01
NG Fuel Heater 6-0205	4.4E-04	1.4E-02	1.5E-03
TOTALS	2.4E-01	1.1E+01	1.2E+00

1. Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

This form must be used to report
Greenhouse gas emissions:
-- carbon dioxide (CO2)
-- methane (CH4)
-- nitrous oxide (N2O)
-- hydrofluorocarbons (HFCs)
-- perfluorocarbons (PFCs)
-- sulfur hexafluoride (SF6)
* Use a separate form for each pollutant.
* Please attach all calculations.

Form 6: Greenhouse Gases

Calendar Year: **2022**

GREENHOUSE GAS AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT

Pollutant: Methane (CH_4)

Facility Name: **Rock Spring Generating Facility** **Facility ID#:** **ORIS-7835**

CH_4

Equipment Description / Registration Number	Actual Emissions		
	tons/yr	lbs/day	lbs/hr
Turbine 1 5-0076	5.2E-01	2.6E+01	3.0E+00
Turbine 2 5-0077	5.8E-01	2.7E+01	3.0E+00
Turbine 3 5-0078	6.8E-01	2.7E+01	3.1E+00
Turbine 4 5-0079	6.3E-01	2.7E+01	3.1E+00
NG Fuel Heater 6-0205	4.4E-03	1.4E-01	1.5E-02
TOTALS	2.4E+00	1.1E+02	1.2E+01

This form must be used to report
Greenhouse gas emissions:
-- carbon dioxide (CO2)
-- methane (CH4)
-- nitrous oxide (N2O)
-- hydrofluorocarbons (HFCs)
-- perfluorocarbons (PFCs)
-- sulfur hexafluoride (SF6)
* Use a separate form for each pollutant.
* Please attach all calculations.

1. Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

ATTACHMENT 1 - ROCK SPRINGS GENERATION FACILITY

2022 Air Emission Statement

Emission Factor Summary

Emission Unit	Turbine 1	Turbine 2	Turbine 3	Turbine 4	Fuel Gas Heater
2022 Operating Hours	343	381	437	408	589
2022 Operating Hours Ozone Season	343	341	389	365	536
PM - Filterable (AP-42)	1.9E-03 lbs/mmbtu	1.9E-03 lbs/mmbtu	1.9E-03 lbs/mmbtu	1.9E-03 lbs/mmbtu	1.9 lbs/10^6 scf (AP-42)
PM - Condensible (AP-42)	4.7E-03 lbs/mmbtu	4.7E-03 lbs/mmbtu	4.7E-03 lbs/mmbtu	4.7E-03 lbs/mmbtu	5.7 lbs/10^6 scf (AP-42)
VOC - (AP-42)	2.1E-03 lbs/mmbtu	2.1E-03 lbs/mmbtu	2.1E-03 lbs/mmbtu	2.1E-03 lbs/mmbtu	5.5 lbs/10^6 scf (AP-42)
SO2:	ECMPS Data	ECMPS Data	ECMPS Data	ECMPS Data	0.6 lb/10^6 scf (AP-42)
NOx:	ECMPS Data	ECMPS Data	ECMPS Data	ECMPS Data	50 lb/10^6 scf (AP-42)
CO:	CEM Data	CEM Data	CEM Data	CEM Data	84 lb/10^6 scf (AP-42)
CO2	ECMPS Data	ECMPS Data	ECMPS Data	ECMPS Data	GHG Reporting
N2O	GHG Reporting	GHG Reporting	GHG Reporting	GHG Reporting	GHG Reporting
CH4	GHG Reporting	GHG Reporting	GHG Reporting	GHG Reporting	GHG Reporting

Rock Springs
2022 Operations

2022	Winter	Spring	Summer	Fall
Seasonal Operation	1.4%	3.6%	89.9%	5.0%

RockSprings Unit No. 1

Pollutant	Tons/Yr	Lbs/Day	Hrs/Day	Days/Wk	Wk/Yr	Days / Yr	Ozone Lbs/Day	Ozone Hrs/Day	Start	End
NOX	8.463	423.2	7.6	2.4	17	40	434.0	8.8	1-Apr	30-Sep
CO	2.6	128.9	7.6	2.4	17	40	-	-	1-Apr	30-Sep
SO2	0.157	7.9	7.6	2.4	17	40	-	-	1-Apr	30-Sep
VOC	0.5	27.4	7.6	2.4	17	40	30.7	8.8	1-Apr	30-Sep
CO2	31049.625	1552481.3	7.6	2.4	17	40	-	-	1-Apr	30-Sep

	ECMPS	Hr-Data	Units
HOURS	303.19	303.2	hours
TIME	343	343.00	hours
Oz. Time		343.00	
HEAT	522,463	570,891	mmbtu
SO2	0.157		tons
CO2	31049.625		tons
NOX	8.463	8.46	tons

PM (tons)	Stack Test (5.5lbs./hour)	PM Filterable (AP-42)	PM Condensible (AP-42)
Particulate	0.83	0.50	1.23
lbs/day	41.7	24.8	61.4

GHG Criteria

	Tons/Yr	Lbs/Day	Lbs/Hr
CO2	31049.625	1552481	181047
CH4	0.52	26	3.0
N2O	0.05	2.6	0.30

ROCK SPRINGS HOURLY DATA

		RockSprings Unit No. 1									Days		
Date	Hour	Time Online (0-1.0 Hour)	Unit Load	Heat Input Rate (Gas Only)	Heat Input (mmbtu)	NOX lbs/hr	Nox (Tons)	SO2 (Tons)	CO (Tons)	CO2 (Tons)	Operate Hours	Days	Weeks
		303.2		570891	570891	55.83057	8.46	0.15	2.6	31049.6	343	40	17

Rock Springs
2022 Operations

RockSprings Unit No. 2

Pollutant	Tons/Yr	Lbs/Day	Hrs/Day	Days/ Wk	Wk/Yr	Days / Yr	Ozone Lbs/Day	Ozone Hrs/Day	Start	End
NOX	10.02	466.1	7.9	2.4	18	43	473.7	9.0	1-Apr	30-Sep
CO	2.2	100.4	7.9	2.4	18	43	-	-	1-Apr	30-Sep
SO2	0.172	8.0	7.9	2.4	18	43	-	-	1-Apr	30-Sep
VOC	0.6	28.1	7.9	2.4	18	43	31.0	9.0	1-Apr	30-Sep
CO2	34216.406	1591460.7	7.9	2.4	18	43	-	-	1-Apr	30-Sep

	ECMPS	Hr-Data	Units
HOURS	341.07	341.07	hours
TIME	381	381	hours
Oz. Time		341.07	
HEAT	575748.623	626176	mmbtu
SO2	0.172		tons
CO2	34216.406		tons
NOX	10.022	10.02	tons

PM (tons)	Stack Test (5.5lbs./hour)	PM Filterable (AP-42)	PM Condensible (AP-42)
Particulate	0.94	0.55	1.35
lbs/day	43.6	25.4	62.9

GHG Criteria

	Tons/Yr	Lbs/Day	Lbs/Hr
CO2	34216.406	1591461	179614
CH4	0.58	27	3.0
N2O	0.06	2.7	0.30

RockSprings Unit No. 2									Days		
Time Online (0-1.0 Hour)	Unit Load	Heat Input Rate (Gas Only)	Heat Input (mmbtu)	NOX lbs/hr	Nox (Tons)	SO2 (Tons)	CO (Tons)	CO2 (Tons)	Operate Hours	Days	Weeks
341.07		626176	626176	58.765	10.02	0.17	2.2	34216.406	381	43	18

Rock Springs
2022 Operations

RockSprings Unit No. 3

Pollutant	Tons/Yr	Lbs/Day	Hrs/Day	Days/Wk	Wk/Yr	Days / Yr	Ozone Lbs/Day	Ozone Hrs/Day	Start	End
NOX	11.038	432.9	7.6	2.2	23	51	397.9	8.7	1-Apr	30-Sep
CO	2.9	112.4	7.6	2.2	23	51	-	-	1-Apr	30-Sep
SO2	0.205	8.0	7.6	2.2	23	51	-	-	1-Apr	30-Sep
VOC	0.7	28.1	7.6	2.2	23	51	31.3	8.7	1-Apr	30-Sep
CO2	40612.663	1592653.5	7.6	2.2	23	51	-	-	1-Apr	30-Sep

	ECMPS	Hr-Data	Units
HOURS	389.27	389.27	hours
TIME	437	437	hours
Oz. Time		389.27	
HEAT	683376.23	744591	mmbtu
SO2	0.205		tons
CO2	40612.663		tons
NOX	11.038	11.04	tons

PM (tons)	Stack Test (5.5lbs./hour)	PM Filterable (AP-42)	PM Condensible (AP-42)
Particulate	1.07	0.65	1.61
lbs/day	42.0	25.5	63.0

GHG Criteria

	Tons/Yr	Lbs/Day	Lbs/Hr
CO2	40612.663	1592653	185870
CH4	0.68	27	3.1
N2O	0.07	2.7	0.31

RockSprings Unit No. 3									Days		
Time Online (0-1.0 Hour)	Unit Load	Heat Input Rate (Gas Only)	Heat Input (mmbtu)	NOX lbs/hr	Nox (Tons)	SO2 (Tons)	CO (Tons)	CO2 (Tons)	Operate Hours	Days	Weeks
389.27		744591	744591	56.72118	11.04	0.19	2.9	40613	437	51	23

Rock Springs
2022 Operations

RockSprings Unit No. 4

Pollutant	Tons/Yr	Lbs/Day	Hrs/Day	Days/Wk	Wk/Yr	Days / Yr	Ozone Lbs/Day	Ozone Hrs/Day	Start	End
NOX	10.852	471.8	7.9	2.4	19	46	482.3	9.1	1-Apr	30-Sep
CO	2.5	106.7	7.9	2.4	19	46	-	-	1-Apr	30-Sep
SO2	0.190	8.3	7.9	2.4	19	46	-	-	1-Apr	30-Sep
VOC	0.7	28.8	7.9	2.4	19	46	32.0	9.1	1-Apr	30-Sep
CO2	37545.266	1632402.9	7.9	2.4	19	46	-	-	1-Apr	30-Sep

	ECMPS	Hr-Data	Units
HOURS	364.68	364.68	hours
TIME	408	408	hours
Oz. Time		364.68	
HEAT	631780.126	686042	mmbtu
SO2	0.19		tons
CO2	37545.266		tons
NOX	10.852	10.85	tons

PM (tons)	Stack Test (5.5lbs./hour)	PM Filterable (AP-42)	PM Condensible (AP-42)
Particulate	1.00	0.60	1.48
lbs/day	43.6	26.1	64.6

GHG Criteria

	Tons/Yr	Lbs/Day	Lbs/Hr
CO2	37545.266	1632403	184045
CH4	0.63	27	3.1
N2O	0.06	2.7	0.31

RockSprings Unit No. 4									Days		
Time Online (0-1.0 Hour)	Unit Load	Heat Input Rate (Gas Only)	Heat Input (mmbtu)	NOX lbs/hr	Nox (Tons)	SO2 (Tons)	CO (Tons)	CO2 (Tons)	Operate Hours	Days	Weeks
364.68		686042	686042	59.5173	10.9	0.18	2.5	37545.27	408	46	19

Rocksprings

Natural Gas Fuel Heaters - w/Low Nox Burner

Pollutant	Tons/Yr	Lbs/Day	lbs/Hr	Hrs/Day	Days/Wk	Wk/Yr	Days / Yr	Ozone Lbs/Day	Ozone Hrs/Day	Start	End
NOX	0.10	3.37	0.35	9.5	2.2	28.0	62	3.1	8.6	1-Apr	30-Sep
CO	0.18	5.66	0.60	9.5	2.2	28.0	62	5.1	8.6	1-Apr	30-Sep
SO2	0.0013	0.0404	0.0043	9.5	2.2	28.0	62	0.0	8.6	1-Apr	30-Sep
VOC	0.01	0.37	0.04	9.5	2.2	28.0	62	0.5	8.6	1-Apr	30-Sep
CO2	250.45	8079.07	850.43	9.5	2.2	28.0	62	7336.5	8.6	1-Apr	30-Sep

Particulates		
PM	PM Condensible	PM Filterable
tons	0.01	0.00397
lbs/day	0.38	0.13

GHG	N2O	CH4
Tons/Yr	0.0004	0.0044
Lbs/Day	0.014	0.143
Lbs/Hr	0.002	0.02

Natural Gas Fuel Heater - Fuel Use 2022

Month	Gas Usage (SCF)	HHV_{gas} (mmBtu/scf)	Natural Gas (mmbtu)	Hours
January	50752.6	0.00103443	52.50	7.0
February	57494.9	0.00104357	60.00	8.0
March	57803.5	0.00103800	60.00	8.0
April	50749.2	0.0010345	52.50	7.0
May	137415.6	0.001037	142.50	19.0
June	376968.2	0.00103457	390.00	52.0
July	1507226.2	0.00106487	1605.00	214.0
August	1548583.3	0.00106549	1650.00	220.0
September	169598.5	0.00106133	180.00	24.0
October	58165.5	0.00103154	60.00	8.0
November	108818.7	0.00103383	112.50	15.0
December	50610.7	0.00103733	52.50	7.0
Total	**4,174,187**	**0.001036**	**4,417.50**	**589.0**

Natural Gas Fuel Heater - Days Used 2022

Month	Days/Month *	Hours/Month	Hrs/Day **
January	1	7.0	7.00
February	1	8.0	8.00
March	1	8.0	8.00
April	1	7.0	7.00
May	2	19.0	9.50
June	8	52.0	6.50
July	20	214.0	10.70
August	21	220.0	10.48
September	4	24.0	6.00
October	1	8.0	8.00
November	1	15.0	15.00
December	1	7.0	7.00
Total	62	Average	8.6

*Based on operating days in each month

**Calculated Based on monthly hours and operating days per month

Rock Springs
2022 Operations

2022 - CO Lbs/Month				
Month	**Unit 1**	**Unit 2**	**Unit 3**	**Unit 4**
January	0.0	94	0	0
February	0.0	0	62.8	0
March	0.0	0	93.6	0
April	89.8	0	0	0
May	94.5	88.3	87.4	164.2
June	749.5	584.2	74	146.9
July	2143.5	1849.6	2081.1	2063.5
August	2001.3	1397.4	2594.1	2367.4
September	79.0	189.2	410.2	166.5
October	0.0	0	80.3	0
November	0.0	115.2	149	0
December	0.0	0	99.4	0

Summary Data Export from ECMPS

Unit	Year	Hours	Time	Heat	SO2	CO2	NOx Tons
RS-1	Full Year 2022	303.19	343	522,463	0.157	31,049.63	8.463
RS-2	Full Year 2022	341.07	381	575,749	0.172	34,216.41	10.0
RS-3	Full Year 2022	389.27	437	683,376	0.205	40,612.66	11.0
RS-4	Full Year 2022	364.68	408	631,780	0.19	37,545.27	10.852

Actual Emissions (tpy)

	NO_X		CO		SO_2		VOC		$PM/PM_{10}/PM_{2.5}$ - Filt.		$PM/PM_{10}/PM_{2.5}$ - Cond.		CO_2		CH_4		N_2O	
Equipment Description	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**
Turbine 1	8.46	9.41	2.58	2.57	0.16	0.17	0.55	0.61	0.50	0.63	1.23	1.36	31050	34486.96	0.52	0.58	0.05	0.06
Turbine 2	10.02	10.68	2.16	2.52	0.17	0.19	0.60	0.67	0.55	0.55	1.35	1.50	34216	37883.44	0.58	0.64	0.06	0.06
Turbine 3	11.04	8.78	2.87	1.87	0.21	0.15	0.72	0.52	0.65	0.76	1.61	1.15	40613	29164.79	0.68	0.49	0.07	0.05
Turbine 4	10.85	12.38	2.45	3.30	0.19	0.23	0.66	0.79	0.60	0.72	1.48	1.77	37545	44712.09	0.63	0.75	0.06	0.08
NG Fuel Heater	0.10	0.15	0.18	0.24	0.00	0.00	0.01	0.02	0.00	0.006	0.01	0.02	250	349.11	0.00	0.01	0.00	0.00
Totals	**40.48**	**41.39**	**10.23**	**10.50**	**0.73**	**0.74**	**2.55**	**2.60**	**2.30**	**2.67**	**5.68**	**5.80**	**143674**	**146596.39**	**2.42**	**2.47**	**0.24**	**0.25**

Actual Emissions (lb/day

	NO_X		CO		SO_2		VOC		$PM/PM_{10}/PM_{2.5}$ - Filt.		$PM/PM_{10}/PM_{2.5}$ - Cond.		CO_2		CH_4		N_2O	
Equipment Description	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**	**2022**	**2021**
Turbine 1	423.15	427.64	128.94	116.88	7.85	7.86	27.43	27.70	24.82	25.06	61.39	61.99	1552481	1567589	26.12	26.38	2.61	2.64
Turbine 2	466.14	427.04	100.42	100.86	8.00	7.64	28.12	26.77	25.44	24.22	62.93	59.92	1591461	1515338	26.78	25.50	2.68	2.55
Turbine 3	432.86	399.23	112.39	85.05	8.04	6.64	28.14	23.42	25.46	21.19	62.98	52.42	1592653	1325672	26.80	22.31	2.68	2.23
Turbine 4	471.83	442.04	106.71	117.71	8.26	8.07	28.84	28.21	26.10	25.53	64.55	63.14	1632403	1596860	27.47	26.87	2.75	2.69
NG Fuel Heater	3.37	4.22	5.66	7.08	0.04	0.05	0.37	0.46	0.13	0.16	0.38	0.48	8079	10119	0.14	0.17	0.01	0.02
Totals	**1797.34**	**1700.16**	**454.11**	**427.59**	**32.19**	**30.26**	**112.90**	**106.57**	**101.94**	**96.16**	**252.23**	**237.95**	**6377077**	**6015579**	**107.31**	**101.23**	**10.73**	**10.12**

APPENDIX E. 2022 ANNUAL COMPLIANCE CERTIFICATION REPORT

1423 Rock Springs Road
Rising Sun, MD 21911
(410) 658-1107
(410) 658-0351 Fax

January 25, 2023

Associate Director,
Office of Enforcement and Permit Review (3AP10)
USEPA Region III
1650 Arch Street
Philadelphia PA 19103-2029

RE: 2022 Annual Compliance Certification Report
Rock Springs Generating Facility
Permit Id # 24 -015 -0202

Dear Sir or Madam:

As per our Part 70 Operating Permit issued by the Air and Radiation Management Administration (ARMA), please find enclosed the 2022 ANNUAL COMPLIANCE CERTIFICATION (A-COMP) form and the CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS (CTAC) form for the Rock Springs Generation Facility for the period from January 1, 2022 to December 31, 2022.

Please feel free to contact Jobie Seward with any questions and/or concerns at (912) 398-4102 or by email at JobieSeward@Cogentrix.com.

Sincerely,

Ralph Jones
General Manager

Enclosure

cc: File

1423 Rock Springs Road
Rising Sun, MD 21911
(410) 658-1107
(410) 658-0351 Fax

January 25, 2023

Mr. Daniel Davis
Maryland Department of the Environment
Air Quality Compliance
1800 Washington Blvd, Suite 715
Baltimore MD 21230

RE: 2022 Annual Compliance Certification Report
Rock Springs Generating Facility
Permit Id # 24 -015 -0202

Dear Mr. Davis:

As per our Part 70 Operating Permit issued by the Air and Radiation Management Administration (ARMA), please find enclosed the 2022 ANNUAL COMPLIANCE CERTIFICATION (A-COMP) form and the CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS (CTAC) form for the Rock Springs Generation Facility for the period from January 1, 2022 to December 31, 2022.

Please feel free to contact Jobie Seward with any questions and/or concerns at (912) 398-4102 or by email at JobieSeward@Cogentrix.com.

Sincerely,

Ralph Jones
General Manager

Enclosure

cc: File

United States Environmental Protection Agency

OMB No. 2060-0336, Approval Expires 06/30/2015

Federal Operating Permit Program (40 CFR Part 71)

ANNUAL COMPLIANCE CERTIFICATION (A-COMP)

A. GENERAL INFORMATION

Permit No. 24-015-0202

Reporting Period: Beg. 01/01/2022 End. 12/31/2022

Source / Company Name Rock Springs Generating Facility

Mailing Address: 1423 Rock Springs Road

City Rising Sun State MD ZIP 21009

Contact person Ralph Jones Title General Manager

Telephone (410) 423 – 4250 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): EU 1 -4 Combustion Turbines

Permit Term (Describe requirements and cross-reference) Opacity less than 20 % for more than 6 consecutive minutes in any 60 minute period.

Compliance Methods for the Above (Description and Citation): Recordkeeping, Operator rounds

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

---

Emission Unit ID(s): EU 1 -4 Combustion Turbines

Permit Term (Describe requirements and cross-reference) PM 10 - 18 lb/hr w/o H20 injections and 31.2 lb/hr with H2) injections and 134.5 TPY on a 12-month rolling cumulative basis.

Compliance Methods for the Above (Description and Citation): Maintenance, recordkeeping

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

---

Emission Unit ID(s): EU 1 -4 Combustion Turbines

Permit Term (Describe requirements and cross-reference) SO 2 - 2.5 lb/hr and 15 TPY on a 12-month rolling cumulative basis

Compliance Methods for the Above (Description and Citation): Fuel Gas Analyses, recordkeeping

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

---

Emission Unit ID(s): EU 1 -4 Combustion Turbines

Permit Term (Describe requirements and cross-reference) NOx - 9.0 ppm/30 day rolling average; 10.5 ppm/hr maximum one-hour average; 64 lbs/hr and 384 TPY on a 12-month rolling cumulative basis.

Compliance Methods for the Above (Description and Citation): CEMS DAS, EDR, EER Reports and Recordkeeping

Status (Check one): ____ Intermittent Compliance **X** Continuous Compliance

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): EU 1 -4 Combustion Turbines

Permit Term (Describe requirements and cross-reference) VOC – 3.0 lb/hr and 18 TPY on a 12-month rolling cumulative basis.

Compliance Methods for the Above (Description and Citation): Stack Test and Emission Statements records

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

---

Emission Unit ID(s): EU 1 -4 Combustion Turbines

Permit Term (Describe requirements and cross-reference) CO - 9 ppm/30 day rolling average and 32 lb/hr and 192 TPY on a rolling cumulative basis.

Compliance Methods for the Above (Description and Citation): CEMS DAS, EDR, EER Reports and Recordkeeping

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

---

Emission Unit ID(s): EU 1 -4 Combustion Turbines

Permit Term (Describe requirements and cross-reference) Operating Hours - less than 8,000 per year on a 12-month rolling cumulative basis.

Compliance Methods for the Above (Description and Citation): CEMS DAS, EDR, EER Reports and Recordkeeping

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

---

Emission Unit ID(s): EU 7 Gas Heater

Permit Term (Describe requirements and cross-reference) Opacity less than 20 % for more than 6 consecutive minutes in any 60 minute period.

Compliance Methods for the Above (Description and Citation): Recordkeeping, Operator rounds

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

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): EU 7 Gas Heater

Permit Term (Describe requirements and cross-reference) PM 10 less than 0.09 lb/hr

Compliance Methods for the Above (Description and Citation): Emission Statement Records

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

---

Emission Unit ID(s): EU 7 Gas Heater

Permit Term (Describe requirements and cross-reference) SO_2 less than 0.05 lb/hr

Compliance Methods for the Above (Description and Citation): Emission Statement Records

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

---

Emission Unit ID(s): EU 7 Gas Heater

Permit Term (Describe requirements and cross-reference) NO_X less that 0.09 lb/hr and 3.9 TPY on a 12-month rolling basis.

Compliance Methods for the Above (Description and Citation): Emission Statement Records

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

---

Emission Unit ID(s): EU 7 Gas Heater

Permit Term (Describe requirements and cross-reference) CO less than 0.45 lb/hr

Compliance Methods for the Above (Description and Citation): Emission Statement Records

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

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): EU 7 Gas Heater

Permit Term (Describe requirements and cross-reference) VOC less than 0.225 lb/hr

Compliance Methods for the Above (Description and Citation): Emission Statement Records

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

---

Emission Unit ID(s): EU-8 Emergency Diesel Fire Pump

Permit Term (Describe requirements and cross-reference) Opacity less than 10 %, during idle and 40 % during any other operating condition for more than 6 consecutive minutes in any 60 minute period.

Compliance Methods for the Above (Description and Citation): Recordkeeping, Operator rounds

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

---

Emission Unit ID(s): EU-8 Emergency Diesel Fire Pump

Permit Term (Describe requirements and cross-reference) PM 10 less than 0.07 lb/hr

Compliance Methods for the Above (Description and Citation): Emission Statement Records

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

---

Emission Unit ID(s): EU-8 Emergency Diesel Fire Pump

Permit Term (Describe requirements and cross-reference) SO_2 less than 0.29 lb/hr

Compliance Methods for the Above (Description and Citation): Emission Statement Records

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

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): EU-8 Emergency Diesel Fire Pump

Permit Term (Describe requirements and cross-reference) NOx less than 0.46 lb/hr

Compliance Methods for the Above (Description and Citation): Emission Statement Records

Status (Check one): ___ Intermittent Compliance **__X__** Continuous Compliance

---

Emission Unit ID(s): EU-8 Emergency Diesel Fire Pump

Permit Term (Describe requirements and cross-reference) CO less than 1.19 lb/hr

Compliance Methods for the Above (Description and Citation): Emission Statement Records

Status (Check one): ___ Intermittent Compliance **__X__** Continuous Compliance

---

Emission Unit ID(s): EU-8 Emergency Diesel Fire Pump

Permit Term (Describe requirements and cross-reference) VOC less than 0.03 lb/hr

Compliance Methods for the Above (Description and Citation): Emission Statement Records

Status (Check one): ___ Intermittent Compliance **__X__** Continuous Compliance

---

Emission Unit ID(s): EU-8 Emergency Diesel Fire Pump

Permit Term (Describe requirements and cross-reference) RICE NESHAP 40 CFR 63 requirements

Compliance Methods for the Above (Description and Citation): CMMS Maintenance System Records

Status (Check one): ___ Intermittent Compliance **__X__** Continuous Compliance

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): EU-9 Emergency Diesel Switchyard Generator

Permit Term (Describe requirements and cross-reference) Opacity less than 10 %, during idle and 40 % during any other operating condition for more than 6 consecutive minutes in any 60 minute period.

Compliance Methods for the Above (Description and Citation): Recordkeeping, Operator rounds

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

---

Emission Unit ID(s): EU-9 Emergency Diesel Switchyard Generator

Permit Term (Describe requirements and cross-reference) Sulfur Content

Compliance Methods for the Above (Description and Citation): Fuel Records

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

---

Emission Unit ID(s): EU-9 Emergency Diesel Switchyard Generator

Permit Term (Describe requirements and cross-reference) RICE NESHAP 40 CFR 63 requirements

Compliance Methods for the Above (Description and Citation): CMMS Maintenance System Records

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

---

Emission Unit ID(s): EU-10 7.5 MMBTU/Hr Gas Heater

Permit Term (Describe requirements and cross-reference) NOX Control – Combustion analysis and tuning requirement.

Compliance Methods for the Above (Description and Citation): CMMS Maintenance System Records

Status (Check one): ___ Intermittent Compliance **X** 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 Apossible exception@ to compliance.@ Start and end period of each deviation should be in mo/day/yr, hr:min format (24-hour clock). Also specify the date when the written deviation report was submitted (If written report required, but not submitted, leave the date field blank).

Permit Term for Which There was a Deviation: **No Deviations to Report**

Emission Units (unit IDs):

Deviation Start ____ End: _____

Probable Cause of Deviation:.

Corrective Actions or Preventative Measures Taken:

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 221 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 whether monitoring data, results, or if compliance records are be 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 Acredible evidence@ (e.g., non-reference test methods and information Areadily 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 Adeviation,@ 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. Also, 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 Afacility-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.

Form CTAC (Certification of Truth, Accuracy, and Completeness by Responsible Official)

You must complete form **CTAC** and attach it to this annual compliance certification.

United States Environmental Protection Agency

OMB No. 2060-0336, Approval Expires10 /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) Jones (First) Ralph (MI)

Title: General Manager

Street or P.O. Box: 1423 Rock Springs Road

City: Rising Sun State: MD ZIP: 21009

Telephone (410) 423 - 4250 Ext. _____ Facsimile (410) 658 - 0351

B. Certification of Truth, Accuracy and Completeness (to be signed by the responsible official)

I certify under penalty of law, based on information and belief formed after reasonable inquiry, the statements and information contained in these documents are true, accurate and complete.

Name (signed) 

Name (typed) Ralph Jones Date: 1/25/2023

INSTRUCTIONS FOR CTAC
CERTIFICATION OF TRUTH, ACURACY, and COMPLETENESS

Information Collection Burden Estimates

The public reporting and recordkeeping burden for this collection of information is estimated to average 209 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

This form is for the responsible official to certify that submitted documents (i.e., permit applications, updates to application, reports, and any other information required to be submitted as a condition of a permit) are true, accurate, and complete.

This form should be completed and submitted with each set of documents sent to the permitting authority. It may be used at time of initial application, at each step of a phased application submittal, for application updates, as well as to accompany routine submittals required as a term or condition of a permit.

Section A - Title V permit applications must be signed by a responsible official. The definition of responsible official can be found at ' 70.2.

Section B - The responsible official must sign and date the certification of truth, accuracy and completeness. This should be done after all application forms are complete and the responsible official has reviewed the information. Normally this would be the last form completed before the package of forms is mailed to the permitting authority.

APPENDIX F. ACID RAIN PERMIT RENEWAL FORMS

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 05/31/2025

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ **new** ☐ **revised** ■ **for ARP permit renewal**

STEP 1

Identify the facility name, State, and plant (ORIS) code.

Facility (Source) Name	State	Plant Code
Rock Springs Generation Facility	Maryland	7835

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
EU-1 - Unit #1	Yes
EU-2 - Unit #2	Yes
EU-3 - Unit #3	Yes
EU-4 - Unit #4	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

Facility (Source) Name (from STEP 1): Rock Springs Generation Facility

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
   (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
   (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:
   (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
   (ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the sourceshall:
   (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
   (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
   (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
   (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Facility (Source) Name (from STEP 1): Rock Springs Generation Facility

STEP 3, Cont'd.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
   (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
   (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
   (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
   (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
   (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
   (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Facility (Source) Name (from STEP 1)	Rock Springs Generation Facility

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

Read the certification statement, sign, and date.

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

Name Clifford Chew	
Signature	Date 10/4/2023

Instructions for the Acid Rain Program Permit Application

The Acid Rain Program requires the designated representative to submit an Acid Rain permit application for each source with an affected unit. A complete Certificate of Representation must be received by EPA before the permit application is submitted to the Title V permitting authority. A complete Acid Rain permit application, once submitted, is binding on the owners and operators of the affected source and is enforceable in the absence of a permit until the Title V permitting authority either issues a permit to the source or disapproves the application.

Please type or print. If assistance is needed, contact the Title V permitting authority.

STEP 1 A Plant Code is a 4- or 5-digit number assigned by the Department of Energy's (DOE) Energy Information Administration (EIA) to facilities that generate electricity. For older facilities, "Plant Code" is synonymous with "ORISPL" and "Facility" codes. If the facility generates electricity but no Plant Code has been assigned, or if there is uncertainty regarding what the Plant Code is, send an email to the EIA. The email address is EIA-860@eia.gov.

STEP 2 In column "a," identify each unit at the facility by providing the appropriate unit identification number, consistent with the identifiers used in the Certificate of Representation and with submissions made to DOE and/or EIA. Do not list duct burners. For new units without identification numbers, owners and operators must assign identifiers consistent with EIA and DOE requirements. Each Acid Rain Program submission that includes the unit identification number(s) (e.g., Acid Rain permit applications, monitoring plans, quarterly reports, etc.) should reference those unit identification numbers in exactly the same way that they are referenced on the Certificate of Representation.

Submission Deadlines

For new units, an initial Acid Rain permit application must be submitted to the Title V permitting authority 24 months before the date the unit commences operation. Acid Rain permit renewal applications must be submitted at least 6 months in advance of the expiration of the acid rain portion of a Title V permit, or such longer time as provided for under the Title V permitting authority's operating permits regulation.

Submission Instructions

Submit this form to the appropriate Title V permitting authority. If you have questions regarding this form, contact your local, State, or EPA Regional Acid Rain contact, or call EPA's Clean Air Markets Hotline at (202) 343-9620.

Paperwork Burden Estimate

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2060-0258). Responses to this collection of information are mandatory (40 CFR 72.30 and 72.31). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information is estimated to be 8 hours per response. 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 to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 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.