



State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02

Trenton, NJ 08625-0420

PHILIP D. MURPHY

Governor

SHEILA Y. OLIVER

Lt. Governor

CATHERINE R. McCABE

Commissioner

Air Pollution Control Operating Permit Renewal

Permit Activity Number: BOP200001

Program Interest Number: 18061

Mailing Address	Plant Location
WILLIAM P. POLEWAY VICE PRESIDENT EFS PARLIN HOLDINGS LLC C/O: GE POWER GENERATIONS SERVICES 901 MAIN AVE, STE 2027 NORWALK, CT 06851	EFS PARLIN HOLDINGS LLC 790 Washington Rd Parlin Middlesex County

Initial Operating Permit Approval Date: June 13, 2001

Operating Permit Approval Date: Proposed

Operating Permit Expiration Date: To be determined - (with application shield)

AUTHORITY AND APPLICABILITY

The New Jersey Department of Environmental Protection (Department) approves and issues this Air Pollution Control Operating Permit under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). This permit is issued in accordance with the air pollution control permit provisions promulgated at Title V of the Federal Clean Air Act, 40 CFR 70, Air Pollution Control Act codified at N.J.S.A. 26:2C and New Jersey State regulations promulgated at N.J.A.C. 7:27-22.

The Department approves this operating permit based on the evaluation of the certified information provided in the permit application that all equipment and air pollution control devices regulated in this permit comply with all applicable State and Federal regulations. The facility shall be operated in accordance with the conditions of this permit. This operating permit supersedes any previous Air Pollution Control Operating Permits issued to this facility by the Department including any general operating permits, renewals, significant modifications, minor modifications, seven-day notice changes or administrative amendments to the permit.

Changes made through this permit activity are provided in the Reason for Application.

PERMIT SHIELD

This operating permit includes a permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17.

COMPLIANCE SCHEDULES

This operating permit does not include compliance schedules as part of the approved compliance plan.

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

The permittee shall submit to the Department and to United States Environmental Protection Agency (US EPA) periodic compliance certifications, in accordance with N.J.A.C. 7:27-22.19. **The annual compliance certification** is due to the Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. **Semi-annual deviation reports** relating to compliance testing and monitoring are due to the Department within 30 days after the end of the semi-annual period. The schedule and additional details for these submittals are available in Subject Item - FC, of the Facility Specific Requirements of this permit.

ACCESSING PERMITS

The facility's current approved operating permit and any previously issued permits (e.g. superseded, expired, or terminated) are available for download in PDF format at: <http://www.nj.gov/dep/aqpp>. After accessing the website, click on "Approved Operating Permits" listed under "Reports" and then type in the Program Interest (PI) Number as instructed on the screen. If needed, the RADIUS file for your permit, containing Facility Specific Requirements (Compliance Plan), Inventories and Compliance Schedules can be obtained by contacting the Helpline number given below. RADIUS software, instructions, and help are available at the Department's website at <http://www.nj.gov/dep/aqpp>.

HELPLINE

The Operating Permit Helpline is available for any questions at (609) 633-8248 from 9:00 AM to 4:00 PM Monday to Friday.

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

The permittee is responsible for submitting a timely and administratively complete operating permit renewal application pursuant to N.J.A.C. 7:27-22.30. Only applications which are timely and administratively complete are eligible for an application shield. The details on the contents of the renewal application, submittal schedule, and application shield are available in Section B - General Provisions and Authorities of this permit.

COMPLIANCE ASSURANCE MONITORING

Facilities that are subject to Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64, shall develop a CAM Plan for modified equipment as well as existing sources. The rule and guidance on how to prepare a CAM Plan can be found at EPA's website: <https://www.epa.gov/air-emissions-monitoring-knowledge-base/compliance-assurance-monitoring>. In addition, CAM Plans must be included as part of the permit renewal application. Facilities that do not submit a CAM Plan may have their permit applications denied, pursuant to N.J.A.C. 7:27-22.3.

ADMINISTRATIVE HEARING REQUEST

If, in your judgment, the Department is imposing any unreasonable condition of approval, you may contest the Department's decision and request an adjudicatory hearing pursuant to N.J.S.A. 52:14B-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information specified in N.J.A.C. 7:27-1.32 and the information on the NJ04 - Administrative Hearing Request Checklist and Tracking Form available at <https://www.state.nj.us/dep/aqpp/applying.html>.

If you have any questions regarding this permit approval, please call Shafi Ahmed at (609) 633-2971.

Approved by:

Joel Leon

Enclosure

CC: Suilin Chan, United States Environmental Protection Agency, Region 2

Facility Name: EFS PARLIN HOLDINGS LLC
Program Interest Number: 18061
Permit Activity Number: BOP200001

TABLE OF CONTENTS

<u>Section A</u>	POLLUTANT EMISSIONS SUMMARY
<u>Section B</u>	GENERAL PROVISIONS AND AUTHORITIES
<u>Section C</u>	STATE-ONLY APPLICABLE REQUIREMENTS
<u>Section D</u>	FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES
	<ul style="list-style-type: none">• FACILITY SPECIFIC REQUIREMENTS – PAGE INDEX• REASON FOR APPLICATION• FACILITY SPECIFIC REQUIREMENTS (COMPLIANCE PLAN)• FACILITY PROFILE (ADMINISTRATIVE INFORMATION)• INSIGNIFICANT SOURCE EMISSIONS• EQUIPMENT INVENTORY• EQUIPMENT DETAILS• CONTROL DEVICE INVENTORY• CONTROL DEVICE DETAILS• EMISSION POINT INVENTORY• EMISSION UNIT / BATCH PROCESS INVENTORY• SUBJECT ITEM GROUP INVENTORY• ADDITIONAL ATTACHMENTS:
	ATTACHMENT 1: ACID RAIN PERMIT
	ATTACHMENT 2: CSAPR RULE

Section A

Facility Name: EFS PARLIN HOLDINGS LLC
Program Interest Number: 18061
Permit Activity Number: BOP200001

POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all Significant Source Operations¹ at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} ² (total)	Pb	HAPs* (total)	CO ₂ e ³
Emission Units Summary	46.5	231	191.4	4.41	32.7	61.3	61.3	0.0025	1.009	
Batch Process Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Group Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Emissions	46.5	231	191.4	4.41	32.7	61.3	61.3	0.0025	1.009	668,278

Table 2: Estimate of total emissions from all Insignificant Source Operations¹ and total emissions from Non-Source Fugitives at the facility.

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} ² (total)	Pb	HAPs (total)
Insignificant Source Operations	0	0	0	0	6.61	6.61	0	0	0
Non-Source Fugitive Emissions ⁴	0.9	0	0	0	0	0	0	0	0

VOC: Volatile Organic Compounds

NO_x: Nitrogen Oxides

CO: Carbon Monoxide

SO₂: Sulfur Dioxide

N/A: Indicates the pollutant is not emitted or is emitted below the reporting threshold specified in N.J.A.C. 7:27-22, Appendix, Table A and N.J.A.C. 7:27-17.9(a).

TSP: Total Suspended Particulates

Other: Any other air contaminant

regulated under the Federal CAA

PM₁₀: Particulates under 10 microns

PM_{2.5}: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO₂e: Carbon Dioxide equivalent

*Emissions of individual HAPs are provided in Table 3 on the next page.

Emissions of "Other" air contaminants are provided in Table 4 on the next page.

¹ Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.

² PM_{2.5} has been included in air permitting rules as of December 9, 2017. Consequently, PM_{2.5} totals in this section may not be up to date. The Department is in the process of updating these limits during each permit modification, and the entire permit will be updated at the time of permit renewal.

³ Total CO₂e emissions for the facility.

⁴ Non-Source Fugitive Emissions are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

Section A

Facility Name: EFS PARLIN HOLDINGS LLC
Program Interest Number: 18061
Permit Activity Number: BOP200001

POLLUTANT EMISSIONS SUMMARY

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations ⁵:

HAP	TPY
1,3-Butadiene	0.0062
Acetaldehyde	0.18
Acrolein	0.0312
Arsenic	0.0031
Benzene	0.071
Beryllium	0.000093
Cadmium	0.0022
Cobalt	0.000068
Ethylbenzene	0.14
Formaldehyde	0.19
Lead	0.0025
Manganese	0.213
Naphthalene	0.016
Nickel	0.0029
Polycyclic Organic Matter	0.021
Propylene Oxide	0.13

Table 4: Summary of “Other” air contaminants emissions from Significant Source Operations:

Other Air Contaminant	TPY
Ammonia	194.7
Sulfuric Acid Mist	1.11

⁵ Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

Section B

Facility Name: EFS PARLIN HOLDINGS LLC

Program Interest Number: 18061

Permit Activity Number: BOP200001

GENERAL PROVISIONS AND AUTHORITIES

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant that occurs only in areas over which the permittee has exclusive use or occupancy. Requirements relative only to nuisance situations, including odors, are not considered federally enforceable. [N.J.A.C. 7:27-22.16(g)8]
2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:
 - a. If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:
 - i. Immediately on the Department hotline at 1-(877) 927-6337, pursuant to N.J.S.A. 26:2C-19(e); and
 - ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or
 - b. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or
 - c. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, and the permittee intends to assert the affirmative defense afforded by N.J.A.C. 7:27-22.16(l), the violation shall be reported by 5:00 PM of the second full calendar day following the occurrence, or of becoming aware of the occurrence, consistent with N.J.A.C. 7:27-22.16(l). [N.J.A.C. 7:27-22.19(g)1]
3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]
4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]
5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]
7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]
8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]
9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]
10.
 - a. For emergencies (as defined at 40 CFR 70.6(g)(1)) that result in non-compliance with any promulgated federal technology-based standard such as NSPS, NESHAPS, or MACT, a federal affirmative defense is available, pursuant to 40 CFR 70. To assert a federal affirmative defense, the permittee must use the procedures set forth in 40 CFR 70. The affirmative defense provisions described below may not be applied to any situation that caused the Facility to exceed any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT.
 - b. For situations other than those covered above, an affirmative defense is available for a violation of a provision or condition of the operating permit only if:
 - i. The violation occurred as a result of an equipment malfunction, an equipment startup or shutdown, or during the performance of necessary equipment maintenance; and
 - ii. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5 and any implementing rules. [N.J.A.C. 7:27-22.16(l)]
11. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]
12. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]
13. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22 or 7:27-17.9(a), unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]
14. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.
15. Consistent with the provisions of N.J.A.C. 7:27-22.3(s), Except as otherwise provided in this subchapter, the submittal of any information or application by a permittee including, but not limited to, an application or notice for any change to the operating permit, including any administrative amendment, any minor or significant modification, renewal, a notice of a seven-day notice change, a notice of past or anticipated noncompliance, does not stay any operating permit condition, nor relieve a permittee from the obligation to obtain other necessary permits and to comply with all applicable Federal, State, and local requirements.

16. Applicable requirements derived from an existing or terminated consent decree with EPA will not be changed without advance consultation by the Department with EPA. N.J.A.C. 7:27-22.3(uu).
17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.
 - a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.
 - b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.
 - c. The permittee cannot use temporary mobile equipment unless the owner or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, prior to bringing the temporary mobile equipment to operate at the major facility.
 - d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved Air Pollution Control Permit when the temporary mobile equipment operates on the property of the permittee.
 - e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of 90 days during any calendar year.
 - f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i)3.
 - g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.
 - h. Where short-term activities (employing temporary mobile equipment) will reoccur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.
18. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.
19. The permittee is responsible for submitting timely and administratively complete operating permit applications:

Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)];
Minor Modifications [N.J.A.C. 7:27-22.23(e)];
Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
Renewals [N.J.A.C. 7:27-22.30(b)].
20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website <http://www.nj.gov/dep/aqpp/applying.html> (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal

at: <http://njdeponline.com/>. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, the renewal application shall include all information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that any deficiencies can be identified and addressed to ensure that the application is administratively complete by the renewal deadline. Only renewal applications which are timely and administratively complete are eligible for an application shield.

21. For all source emissions testing performed at the facility, the phrase “worst case conditions without creating an unsafe condition” used in the enclosed compliance plan is consistent with EPA’s National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:
 - i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and
 - ii. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.
22. Consistent with EPA’s National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.
23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
24. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department’s Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]
25. Testing every 5 years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.

Section C

Facility Name: EFS PARLIN HOLDINGS LLC

Program Interest Number: 18061

Permit Activity Number: BOP200001

STATE-ONLY APPLICABLE REQUIREMENTS

N.J.A.C. 7:27-22.16(b)5 requires the Department to specifically designate as not being federally enforceable any permit conditions based only on applicable State requirements. The applicable State requirements to which this provision applies are listed in the table titled "State-Only Applicable Requirements."

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

<u>SECTION</u>	<u>SUBJECT ITEM</u>	<u>ITEM #</u>	<u>REF. #</u>
B	---	1	---
B	---	13b	---
D	FC	---	3
D	FC	---	9
D	GR	1	1 - 13

Section D

Facility Name: EFS PARLIN HOLDINGS LLC

Program Interest Number: 18061

Permit Activity Number: BOP200001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

<u>Subject Item and Name</u>	<u>Page Number</u>
------------------------------	--------------------

Facility (FC):

FC	1
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Insignificant Sources (IS):

IS NJID	IS Description	
IS2	Cooling Tower, < 50 lb/hr treatment chemicals added to process	7
IS3	Lube Oil Vent < 50 lbs/hr through put	8
IS4	Fuel Oil Tanks, Non-Applicable VOC (<0.02 psia)	9

Groups (GR):

GR NJID	GR Designation	GR Description	
GR1	RGGI Rules	RGGI Rules for 2 Combustion Turbines	11

Emission Units (U):

U NJID	U Designation	U Description	
U1	Elect. Plant	Electricity Generation Plant	21
U4	ST_ENG1and2	Starter Diesel Engine #1 and #2 for CT#1 and CT#2	75

**New Jersey Department of Environmental Protection
Reason for Application**

Permit Being Modified

Permit Class: BOP **Number:** 200002

Description of Modifications: EFS Parlin Holdings, LLC (Parlin) is submitting this application for the five year renewal of its Operating Permit, BOP160001 in accordance with N.J.A.C. 7-27:22.30.

The RADIUS application is supplemented with "Attachment to the RADIUS Operating Permit Renewal Application" and a summary of stack test results conducted in June and July of 2019.

The application contains an application for renewal of the facility's Acid Rain Permit Application.

Parlin is required by its Title V Operating Permit to monitor NO_x and CO by a continuous emissions monitoring system (CEMS), therefore this facility complies with the definition of continuous compliance certification method in 40 CFR Part 64.1 and is exempt from the CAM rule.

There have been no 7-day notice changes made during the five year permit term.

The facility is in compliance with the provisions of the current Operating Permit therefore no compliance schedules are provided in the application.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: FC

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	General Provisions: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-1. [N.J.A.C. 7:27- 1]	None.	None.	None.
2	Control and Prohibition of Open Burning: The permittee is prohibited from open burning of rubbish, garbage, trade waste, buildings, structures, leaves, other plant life and salvage. Open burning of infested plant life or dangerous material may only be performed with a permit from the Department. [N.J.A.C. 7:27- 2]	None.	None.	Obtain an approved permit: Prior to occurrence of event (prior to open burning). [N.J.A.C. 7:27- 2]
3	Prohibition of Air Pollution: The permittee shall not emit into the outdoor atmosphere substances in quantities that result in air pollution as defined at N.J.A.C. 7:27-5.1. [N.J.A.C. 7:27- 5]	None.	None.	None.
4	Prevention and Control of Air Pollution Control Emergencies: Any person responsible for the operation of a source of air contamination set forth in Table 1 of N.J.A.C. 7:27-12 is required to prepare a written Standby Plan, consistent with good industrial practice and safe operating procedures, and be prepared for reducing the emission of air contaminants during periods of an air pollution alert, warning, or emergency. Any person who operates a source not set forth in Table 1 of N.J.A.C. 7:27-12 is not required to prepare such a plan unless requested by the Department in writing. [N.J.A.C. 7:27-12]	None.	None.	Comply with the requirement: Upon occurrence of event. Upon proclamation by the Governor of an air pollution alert, warning, or emergency, the permittee shall put the Standby Plan into effect. In addition, the permittee shall ensure that all of the applicable emission reduction objectives of N.J.A.C. 7:27-12.4, Table I, II, and III are complied with whenever there is an air pollution alert, warning, or emergency. [N.J.A.C. 7:27-12]
5	Emission Offset Rules: The permittee shall comply with all applicable provisions of Emission Offset Rules. [N.J.A.C. 7:27-18]	None.	None.	None.
6	Emission Statements: The permittee shall comply with all the applicable provisions of N.J.A.C. 7:27-21. [N.J.A.C. 7:27-21]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Compliance Certification: The permittee shall submit an annual Compliance Certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f). [N.J.A.C. 7:27-22]	None.	None.	<p>Submit an Annual Compliance Certification: Annually to the Department and to EPA within 60 days after the end of each calendar year during which this permit was in effect. The Compliance Certification shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The certification should be printed for submission to EPA.</p> <p>The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/. The Compliance Certification forms and instructions for submitting to EPA are available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22]</p>
8	Prevention of Air Pollution from Consumer Products and Architectural Coatings: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-24 and [N.J.A.C. 7:27-23]	None.	None.	None.
9	Any operation of equipment which causes off-property effects, including odors, or which might reasonably result in citizen's complaints shall be reported to the Department to the extent required by the Air Pollution Control Act, N.J.S.A. 26:2C-19(e). [N.J.S.A. 26: 2C-19(e)]	Other: Observation of plant operations. [N.J.S.A. 26: 2C-19(e)].	Other: Maintain a copy of all information submitted to the Department. [N.J.S.A. 26: 2C-19(e)].	<p>Notify by phone: Upon occurrence of event. A person who causes a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints shall immediately notify the Department. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337. [N.J.S.A. 26: 2C-19(e)]</p>
10	Prevention of Significant Deterioration: The permittee shall comply with all applicable provisions of Prevention of Significant Deterioration (PSD). [40 CFR 52.21]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Asbestos, Subpart M. [40 CFR 61]	Other: Comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Other: Comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61]
12	Protection of Stratospheric Ozone: 1) If the permittee manufactures, transforms, destroys, imports, or exports a Class I or Class II substance, the permittee is subject to all the requirements as specified at 40 CFR 82, Subpart A; 2) If the permittee performs a service on motor "fleet" vehicles when this service involves an ozone depleting substance refrigerant (or regulated substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified at 40 CFR 82, Subpart B. 3) The permittee shall comply with the standards for labeling of products containing or manufactured with ozone depleting substances pursuant to 40 CFR 82, Subpart E. 4). The permittee shall comply with the standards for recycling and emission reductions of Class I and Class II refrigerants or a regulated substitute substance during the service, maintenance, repair, and disposal of appliances pursuant to 40 CFR 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. 5) The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program (SNAP) promulgated pursuant to 40 CFR 82, Subpart G. [40 CFR 82]	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82]

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Deviation Reports: The permittee shall submit to the Department a certified six-month Deviation Report relating to testing and monitoring required by the operating permit. [N.J.A.C. 7:27-22.19(d)3], [N.J.A.C. 7:27-22.19(e)], and [N.J.A.C. 7:27-22.19(c)]	None.	Other: The permittee shall maintain deviation reports for a period of five years from the date each report is submitted to the Department. [N.J.A.C. 7:27-22.19(a)] and [N.J.A.C. 7:27-22.19(e)].	Submit a report: As per the approved schedule. The six-month deviation reports for the period from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and for the period from July 1 through December 31, shall be submitted by January 30 of the following calendar year. The annual compliance certification required by N.J.A.C. 7:27-22.19(f) may also be considered as your six-month Deviation Report for the period from July 1 – December 31, if submitted by January 30 of the following calendar year. The reports shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/ . The Compliance Certification forms are available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22]
14	Used Oil Combustion: No person shall combust used oil except as authorized pursuant to N.J.A.C. 7:27-20. [N.J.A.C. 7:27-20.2]	None.	None.	Comply with the requirement: Prior to occurrence of event (prior to burning used oil) either register with the Department pursuant to N.J.A.C. 7:27-20.3 or obtain a permit issued by the Department pursuant to N.J.A.C. 7:27-8 or 7:27-22, whichever is applicable. [N.J.A.C. 7:27-20.2(d)]
15	Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with all applicable provisions of 40 CFR 68. [40 CFR 68]	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The Department and its authorized representatives shall have the right to enter and inspect any activity subject to N.J.A.C. 7:27-22, or portion thereof, pursuant to N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-22.16(g)9]	None.	None.	None.
17	The permittee shall pay fees to the Department pursuant to N.J.A.C. 7:27. [N.J.A.C. 7:27-22.16(g)10]	None.	None.	None.
18	Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. Whenever the permittee makes a replacement, modification, change or repair of a certified CEMS or COMS that may significantly affect the ability of the system to accurately measure or record data, the permittee must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005. The permittee is responsible for any downtime associated with the replacement, modification, change or repair of the CEMS or COMS. [N.J.A.C. 7:27-22.18(j)]	None.	None.	Comply with the requirement: Upon occurrence of event. The permittee is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. [N.J.A.C. 7:27-22.18(j)]
19	Each process monitor must be operated at all times when the associated process equipment is operating except during service outage time not to exceed 24 hours per calendar quarter. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee must keep a service log to document any outage. [N.J.A.C. 7:27-22.16(o)]	None.
20	Continuous recording for process monitors must be at a sufficient frequency and resolution to be able to document compliance or non-compliance in accordance with Technical Manual 1005 for CEMS (TM1005(B)(3)). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	If an operating permit has expired, the conditions of the operating permit, including the requirements for stack testing during the expired permit term, remain enforceable until the operating permit is reissued. [N.J.A.C. 7:27-22.30(j)] and [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS2 Cooling Tower, < 50 lb/hr treatment chemicals added to process

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20%. Opacity may be no greater than 20%, exclusive of visible condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	Other: Periodic visual inspections. [N.J.A.C.7:27-6.2(d)] &[N.J.A.C. 7:27-6.2(e)].	None.	None.
2	Water treatment chemicals containing hexavalent chromium shall not be added to the cooling tower circulating water. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS3 Lube Oil Vent < 50 lbs/hr through put

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS4 Fuel Oil Tanks, Non-Applicable VOC (<0.02 psia)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
3	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
9	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #4 to #10 above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: GR1 RGGI Rules for 2 Combustion Turbines

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>The owners and operators of each CO2 budget source and each CO2 budget unit at the source shall, as of the CO2 allowance transfer deadline, hold CO2 allowances in the sources's compliance account, available for compliance deductions under N.J.A.C. 7:27C-6.9, as follows:</p> <p>1) In the case of an initial control period, the number of CO2 allowances held shall be no less than the amount equivalent to the total CO2 emissions for the initial control period from all CO2 budget units at the source;</p> <p>2) In the case of a control period, the number of CO2 allowances held shall be no less than the total CO2 emissions for the control period from all CO2 budget units at the source, less the CO2 allowances deducted to meet the requirements of N.J.A.C 7:27C-1.4(g) with respect to the previous two interim control periods, as determined in accordance with N.J.A.C 7:27C-6 and 7:27C-8;</p> <p>3) In the case of an interim control period, the number of CO2 allowances held shall be no less than the total CO2 emissions for the interim control period from all CO2 budget units at the source, multiplied by 0.50, as determined in accordance with NJAC 7:27C-6 and 7:27C-8. [N.J.A.C. 7:27C-1.4(f)]</p>	<p>Monitored by calculations at the approved frequency. The Department shall use the emission measurements recorded and reported in accordance with N.J.A.C. 7:27C-8 to determine the unit's compliance. Total tons for a control period shall be calculated as the sum of all recorded hourly emissions (or the tonnage equivalent of the recorded hourly emissions rates) in accordance with N.J.A.C. 7:27C-8. The Department will round total CO2 emissions to the nearest whole ton, so that any fraction of a ton equal to or greater than 0.50 tons is deemed to equal one ton and any fraction of a ton less than 0.50 tons is deemed to equal zero tons. [N.J.A.C. 7:27C- 1.4(d)]</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Maintain records of all CO2 emissions from each CO2 budget unit. [N.J.A.C. 7:27C- 8]</p>	<p>Submit a report: On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1). The CO2 authorized account representative shall submit quarterly reports to the Bureau of Energy and Sustainability, for each calendar quarter beginning with:</p> <p>i. For a unit that commences commercial operation before December 17, 2018, the calendar quarter beginning January 1, 2020; or</p> <p>ii. For a unit commencing commercial operation on or after December 17, 2018, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under N.J.A.C. 7:27C-8.1(d). If the calendar quarter so determined is the third or fourth quarter of 2019, reporting shall commence in the quarter beginning January 1, 2020.</p> <p>Quarterly reports shall be submitted in the manner specified in Subpart H of 40 CFR 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO2 budget unit (or group of units using a common stack), and shall include all of the data and information required in Subpart G of 40 CFR 75, except for opacity, heat input, NOx and SO2 provisions.</p> <p>The CO2 authorized account representative shall submit, to the Bureau of Energy and Sustainability, a compliance certification in support of each quarterly report, pursuant to N.J.A.C. 7:27C-8.5(c)3. [N.J.A.C. 7:27- 8.5(c)]</p>

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	CO2 Allowance Tracking System (COATS): CO2 allowances shall be held in, deducted from, or transferred among COATS accounts in accordance with N.J.A.C. 7:27C-5, 6, and 7. [N.J.A.C. 7:27C-1.4(i)] A CO2 allowance shall not be deducted, in order to comply with N.J.A.C. 7:27-1.4(f), for a control period that ends prior to the year for which the CO2 allowance was allocated. [N.J.A.C. 7:27C-1.4(j)] A CO2 offset allowance shall not be deducted, in order to comply with N.J.A.C. 7:27-1.4(f), beyond the applicable percent limitations at N.J.A.C. 7:27C6.9(a)3. [N.J.A.C. 7:27C- 1.4(k)]	Other: The Permittee shall review any transactions recorded in its COATS account for accuracy.[N.J.A.C. 7:27-22.16(o)].	None.	Submit a report: As per the approved schedule Submit compliance certification reports pursuant to N.J.A.C. 7:27C-4.1(a) and CO2 allowance transfer requests, as necessary, pursuant to N.J.A.C. 7:27C-7.1(a), to the Bureau of Energy and Sustainability If information in COATS account is found to be inaccurate, notify the Bureau of Energy and Sustainability. [N.J.A.C. 7:27-22.16(o)]
3	CO2: The owners and operators of a CO2 budget source that has excess emissions in any control period or in the initial control period, or has excess interim emissions in any interim control period, shall: 1. Forfeit the CO2 allowances required for deduction under N.J.A.C. 7:27C-6.9(e); 2. Not use any CO2 offset allowances to cover any part of such excess emissions; and 3. Pay any fine, penalty, or assessment or comply with any other remedy imposed under N.J.A.C. 7:27C-6.9(f). [N.J.A.C. 7:27C- 1.4(n)]	Other: The Permittee shall review any transactions recorded in its COATS account for accuracy.[N.J.A.C. 7:27-22.16(o)].	None.	Submit notification: Upon occurrence of event. If information in COATS account is found to be inaccurate, notify the Bureau of Energy and Sustainability. [N.J.A.C. 7:27-22.16(o)]

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	CO2: Account certificate of representation and supporting documents. [N.J.A.C. 7:27C-1.4(o)1]	None.	CO2: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owners and operators of the CO2 budget source and each CO2 budget unit at the source shall keep on site at the source the account certificate of representation for the CO2 authorized account representative for the CO2 budget source and each CO2 budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with N.J.A.C. 7:27C-2.4. These documents shall be retained on site at the source until such documents are superseded by a newly submitted account certificate of representation changing the CO2 authorized account representative. [N.J.A.C. 7:27C- 1.4(o)1]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	CO2: Copies of Documents & Reports [N.J.A.C. 7:27C- 1.4(o)]	None.	<p>CO2: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event The owners and operators of the CO2 budget source and each CO2 budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the document is created. The Department may at any time prior to the end of the 10-year period extend the 10-year period in writing, if it determines that retention of the documents beyond the 10-year period is necessary to determine compliance with the requirements of N.J.A.C. 7:27C:</p> <ul style="list-style-type: none"> - All emissions monitoring information, in accordance with N.J.A.C. 7:27C-8 and 40 CFR 75.57; - Copies of all reports, compliance certifications, and other submissions, and all records made or required under the CO2 Budget Trading Program; and - Copies of all documents used to complete an application for a new or modified operating permit that incorporates the requirements of the CO2 Budget Trading Program and any other submission under the CO2 Budget Trading Program or to demonstrate compliance with the requirements of the CO2 Budget Trading Program. <p>[N.J.A.C 7:27C-1.4(o)2, [N.J.A.C 7:27C-1.4(o)3 and. [N.J.A.C. 7:27C-1.4(o)4]</p>	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	CO2: Compliance Certification Report: [N.J.A.C. 7:27C-1.4(p)] and [N.J.A.C. 7:27C- 4.1]	None.	None.	<p>Submit a report: As per the approved schedule. For each control period, including the initial control period, in which a CO2 budget source is subject to the CO2 requirements of N.J.A.C 7:27C-1.4, the CO2 authorized account representative shall submit, to the Bureau of Energy and Sustainability, by March 1 following each relevant three-calendar-year control period, the compliance certification report that includes the following elements listed in N.J.A.C. 7:27C-4.1(b):</p> <ol style="list-style-type: none"> 1. Identification of the CO2 budget source and each CO2 budget unit at the source; 2. At the CO2 authorized account representative's option, the serial numbers of the CO2 allowances that are to be deducted from the CO2 budget source's compliance account under N.J.A.C. 7:27C-6.9 for the control period, including the serial numbers of any CO2 offset allowances that are to be deducted subject to the limitations of N.J.A.C. 7:27C-6.9(a)3; and 3. The compliance certification: <p>In the compliance certification report, the CO2 authorized account representative shall certify whether the CO2 budget source and each CO2 budget unit at the source for which the compliance certification is submitted was operated, during the calendar years covered by the report, in compliance with the requirements of the CO2 Budget Trading Program, based on reasonable inquiry of those persons with primary responsibility for operating the CO2 budget source and the CO2 budget units at the source in compliance with the CO2 Budget Trading Program. [N.J.A.C. 7:27C-4.1(b)] and. [N.J.A.C. 7:27C- 4.1]</p>

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	CO2: The owner or operator of each CO2 budget unit shall install all monitoring systems necessary to monitor CO2 mass emissions in accordance with 40 CFR Part 75, except for equation G-1 of Appendix G, which shall not be used to determine CO2 emissions. Compliance with this paragraph may require systems to monitor CO2 concentration, stack gas flow rate, O2 concentration, heat input, and fuel flow rate [N.J.A.C. 7:27C- 8.1(c)1]	Other: The owner or operator of a CO2 budget unit shall meet the monitoring system certification and other requirements of N.J.A.C. 7:27C-8.1(c) and shall quality-assure the data from the monitoring systems in accordance with the schedule prescribed in N.J.A.C. 7:27C-8.1(d)(1) for a CO2 budget unit that commenced commercial operation before December 17, 2018, N.J.A.C. 7:27C-8.1(d)(2) for a CO2 budget unit that commenced commercial operation on or after December 17, 2018 or N.J.A.C. 7:27C-8.1(d)(3) for a CO2 budget unit for which construction of a new stack or flue installation is completed after the applicable deadlines at N.J.A.C. 7:27C-8.1(d)(1) and (2). [N.J.A.C 7:27C-8.1(c)2], [N.J.A.C 7:27C-8.1(c)3] and [N.J.A.C 7:27C-8.1(d)] The owner or operator shall ensure, for each continuous emissions monitoring system (including the automated data acquisition and handling system) the successful completion of all of the initial certification testing required under 40 CFR 75.20 by the applicable deadlines listed above. In addition, whenever the owner or operator installs a monitoring system in order to meet the requirements of N.J.A.C. 7:27C-8 in a location where no such monitoring system was previously installed, initial certification in accordance with 40 CFR 75.20 is required.[N.J.A.C. 7:27C- 8.2(d)].	CO2: Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator of a CO2 budget unit shall record the data from the monitoring systems in accordance with the schedule prescribed in N.J.A.C. 7:27C-8.1(d)(1) for a CO2 budget unit that commenced commercial operation before December 17, 2018, N.J.A.C. 7:27C-8.1(d)(2) for a CO2 budget unit that commenced commercial operation on or after December 17, 2018 or N.J.A.C. 7:27C-8.1(d)(3) for a CO2 budget unit for which construction of a new stack or flue installation is completed after the applicable deadlines at N.J.A.C. 7:27C-8.1(d)(1) and (2). [N.J.A.C 7:27C-8.1(c)3] and. [N.J.A.C. 7:27C- 8.1(d)]	Submit a report: As per the approved schedule. The owner or operator of a CO2 budget unit shall report the data from the monitoring systems in accordance with the schedule prescribed in N.J.A.C. 7:27C-8.1(d)(1) for a CO2 budget unit that commenced commercial operation before December 17, 2018, N.J.A.C. 7:27C-8.1(d)(2) for a CO2 budget unit that commenced commercial operation on or after December 17, 2018 or N.J.A.C. 7:27C-8.1(d)(3) for a CO2 budget unit for which construction of a new stack or flue installation is completed after the applicable deadlines at N.J.A.C. 7:27C-8.1(d)(1) and (2). [N.J.A.C 7:27C-8.1(c)3] and. [N.J.A.C. 7:27C- 8.1(d)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	CO2: The owner or operator of a CO2 budget unit that commenced commercial operation before December 17, 2018 and did not certify all monitoring systems required under N.J.A.C. 7:27C8.1(c) by June 11, 2019; or a CO2 budget unit that commenced commercial operation on or after December 17, 2018 and did not certify all monitoring systems required under N.J.A.C. 7:27C8.1(c) by June 11, 2019 or the earlier of 90 unit operating days or 180 calendar days after the date on which the unit commenced commercial operation; or a CO2 budget unit for which construction of a new stack or flue installation is completed after the above deadline and did not certify all monitoring systems required under N.J.A.C. 7:27C8.1(c) by the earlier of 90 unit operating days or 180 calendar days after the date on which emissions first exited the new stack or flue and entered the atmosphere; shall, for each such monitoring system, determine, record and report, the necessary data as specified. [N.J.A.C. 7:27C- 8.1(e)]	Other: The owner or operator shall, for each monitoring system, determine maximum (or, as appropriate, minimum) potential values for CO2 concentration, CO2 emissions rate, stack gas moisture content, fuel flow rate, heat input, and any other parameter required to determine CO2 mass emissions in accordance with 40 CFR 75.31(b)(2) or (c)(3) and section 2.4 of Appendix D of 40 CFR Part 75, as applicable.[N.J.A.C. 7:27C- 8.1(e)].	CO2: Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall, for each monitoring system, record maximum (or, as appropriate, minimum) potential values for CO2 concentration, CO2 emissions rate, stack gas moisture content, fuel flow rate, heat input, and any other parameter required to determine CO2 mass emissions in accordance with 40 CFR 75.31(b)(2) or (c)(3) and section 2.4 of Appendix D of 40 CFR Part 75, as applicable. [N.J.A.C. 7:27C- 8.1(e)]	Submit a report: As per the approved schedule. The owner or operator shall, for each monitoring system, report maximum (or, as appropriate, minimum) potential values for CO2 concentration, CO2 emissions rate, stack gas moisture content, fuel flow rate, heat input, and any other parameter required to determine CO2 mass emissions in accordance with 40 CFR 75.31(b)(2) or (c)(3) and section 2.4 of Appendix D of 40 CFR Part 75, as applicable. [N.J.A.C. 7:27C-8.1(e)]
9	No owner or operator of a CO2 budget unit shall 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 in accordance with N.J.A.C. 7:27C-8.6. [N.J.A.C. 7:27C-8.1(j)1]	None.	None.	Obtain approval: Upon occurrence of event. The CO2 authorized account representative of a CO2 budget unit may submit a petition to the Administrator under 40 CFR 75.66, and to the Department requesting approval to apply an alternative to any requirement of 40 CFR Part 75 or to a requirement concerning any additional CEMS required under the common stack provisions of 40 CFR 75.72 or a CO2 concentration CEMS used under 40 CFR 75.71(a)(2). [N.J.A.C. 7:27C-8.6]

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO2: The owner or operator of a CO2 budget unit shall comply with the initial certification and recertification procedures set forth at N.J.A.C. 7:27C-8.2(d) through (r) for a continuous emissions monitoring system and an excepted monitoring system under Appendix D of 40 CFR Part 75, except as provided in N.J.A.C. 7:27C-8.2(a). The owner or operator of a CO2 budget 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 Subpart E of 40 CFR Part 75 shall comply with the initial certification and recertification procedures set forth at N.J.A.C. 7:27C-8.2(q) or (r), respectively. [N.J.A.C. 7:27C- 8.2(c)]	None.	None.	Submit notification: Upon occurrence of event. The CO2 authorized account representative shall submit to the Department, EPA Region 2 office and the Administrator a written notice of the dates of certification in accordance with N.J.A.C. 7:27C-8.4. [N.J.A.C. 7:27C-8.2(h)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<p>CO2: . The owner or operator shall recertify a monitoring system in accordance in 40 CFR 75.20(b) whenever the owner or operator makes the replacement, modification, or changes described in N.J.A.C. 7:27C-8.2(f). [N.J.A.C. 7:27C-8.2(f)]</p> <p>A provisionally certified monitor may be used under the CO2 Budget Trading Program for a period not to exceed 120 days after the Department receives the complete certification application for the monitoring system, or component thereof, under N.J.A.C.7:27C-8.2(h). [N.J.A.C. 7:27C-8.2(j)]</p> <p>Whenever 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 Subpart D or Appendix C, of 40 CFR Part 75. [N.J.A.C. 7:27C- 8.3(a)]</p>	<p>Other: The owner or operator of a CO2 budget unit shall submit a monitoring plan in the manner prescribed in 40 CFR 75.62, either electronically or hardcopy. If electronic, no later than 21 days prior to the initial certification tests; at the time of each certification or recertification application submission; and (prior to or concurrent with) the submittal of the electronic quarterly report for a reporting quarter where an update of the electronic monitoring plan information is required. If hardcopy, no later than 21 days prior to the initial certification test; with any certification or recertification application, if a hardcopy monitoring plan change is associated with the certification or recertification event; and within 30 days of any other event with which a hardcopy monitoring plan change is associated, pursuant to 40 CFR 75.53(b). Electronic submittal of all monitoring plan information, including hardcopy portions, is permissible provided that a paper copy of the hardcopy portions can be furnished upon request.[N.J.A.C. 7:27C- 8.5(b)].</p>	None.	<p>Submit documentation of compliance: As per the approved schedule. The CO2 authorized account representative shall submit a certification or recertification application to the Department for each monitoring system within 45 days after completing all CO2 monitoring system initial certification or recertification tests required under N.J.A.C. 7:27C-8.2 including the information required under 40 CFR 75.53(g) and (h) and 75.63. . [N.J.A.C. 7:27C- 8.2(e)]</p>
12	<p>The CO2 authorized account representative of a CO2 budget unit that co-fires eligible biomass as a compliance mechanism under N.J.A.C. 7:27C shall report the information as provided in N.J.A.C. 7:27C-8.7 to the Department for each calendar quarter. [N.J.A.C. 7:27C- 8.7(a)]</p>	None.	None.	<p>Submit a report: Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1). [N.J.A.C. 7:27C-8.7]</p>

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Net electric output and net thermal output. [N.J.A.C. 7:27C- 8.8(a)]	Other: The output monitoring plan shall include: - a diagram of the electrical and/or steam system, - a description of each output monitoring system, - a detailed description of all quality assurance and quality control activities, and - documentation supporting any output value(s) to be used as a missing data value should there be periods of invalid output data. [N.J.A.C. 7:27C-8.8(g)] Ongoing quality assurance and quality control (QA/QC) activities shall be performed in order to maintain the output system in accordance with N.J.A.C. 7:27C-8.8(i). [N.J.A.C. 7:27C- 8.8].	Other: The owner or operator of a CO2 budget source shall retain data used to monitor, determine, or calculate net electrical output and net thermal output for 10 years. [N.J.A.C. 7:27C-8.8(j)].	Submit a report: Annually. The CO2 authorized account representative shall submit annual output reports electronically to the Department, pursuant to N.J.A.C. 7:27C-8.8(b) through (j), by the March 1 following the immediately preceding calendar year. These reports shall also be submitted, upon Department request, in hardcopy. The annual output report shall include unit level megawatt-hours and all useful steam output; and shall include a certification from the CO2 authorized account representative pursuant to N.J.A.C. 7:27C-8.8(k). [N.J.A.C. 7:27C-8.8(a)] and. [N.J.A.C. 7:27C- 8.8(k)]

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 Electricity Generation Plant**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart GG 40 CFR 97. [40 CFR Federal Rules Summary]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	<p>STACK TESTING SUMMARY: The permittee shall conduct a comprehensive stack test at emission point PT1 and PT2 no later than every five years (see General Provisions) from the last stack test using an approved protocol to demonstrate compliance with NO_x, CO and NH₃ as specified in OS1, OS8, OS11 & OS18. The permittee shall provide EMS the turbine load performance curve with the protocol. All tests are at the combined plant stack. The steam injection system and the SCR system shall be operated during all stack tests.</p> <p>Three tests shall be conducted at worst case permitted operating conditions for the corresponding test, such as ambient (relative humidity and temp.) conditions, with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee shall submit to EMS all data necessary to substantiate the ambient conditions.</p> <p>The permittee may propose to use CEMS data to satisfy the renewal stack testing requirements, for NO_x and CO, with EMS approval. Such alternative shall be proposed in the stack testing protocol. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing requirements of this permit. CEMS data shall be taken at the same worst case conditions as described for stack testing. [N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under the applicable operating scenarios.[N.J.A.C. 7:27-22.16(o)].	Other: Monitoring as required under the applicable operating scenarios.[N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 12 months prior to the completion of the five year period since the last stack test. The protocol and test report must be prepared and submitted on a CD using the Electronic reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchi/ert.</p> <p>Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist.</p> <p>Test results shall report emissions in lb/hr, lb/MW-hr, lb/MMBTU(HHV) (for NO_x only), and ppm_{dv} @ 15% O₂ (For CO, NO_x and Ammonia). [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The permittee shall submit an Excess Emission Monitoring Performance Report to the appropriate Regional Enforcement Office (REO) for review and approval. This report shall be submitted to the REO whether or not an emission exceedance has occurred. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at no required frequency. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
4	The owner or operator shall develop a QA/QC plan for all CEMS/COMS required by this permit prepared in accordance with the NJDEP Technical Manual 1005 posted on the AQPP webpage at http://www.state.nj.us/dep/aqpp . [N.J.A.C. 7:27-22.16(a)]	Other: The QA/QC coordinator shall be responsible for reviewing the QA/QC plan on an annual basis.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible records of the QA/QC plan including QA date and quarterly reports.[N.J.A.C. 7:27-22.16(o)].	None.
5	CO <= 250 ppmvd @ 15% O ₂ . CO RACT emission limit applies during all operation. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, based on one calendar day , not including periods of equipment downtime. (Please see U1/OS Summary). [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (Please see U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
6	CO <= 250 ppmvd @ 15% O ₂ . CO RACT emission limit applies during all operation. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
7	VOC (Total) <= 50 ppmvd @ 15% O ₂ . VOC RACT emission limit applies during all operation. [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
8	All N.J.A.C. 7:27 -22.16(a) steady state emission limits specified in this permit for the turbine are not applicable during startup and shutdown (excludes N.J.A.C. 7:27-16.9 and 19.5 limitations). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	<p>The owner or operator of a stationary combustion turbine that has a maximum gross heat input rate of 25 million BTU per hour or more and associated duct burner (if a duct burner is installed) shall adjust the combustion process in accordance with the procedure set forth at N.J.A.C. 7:27-19.16(g) and in accordance with the manufacturer's recommended procedures and maintenance schedules for those sources.</p> <p>[N.J.A.C 7:27-22.16(a)], [N.J.A.C. 7:27-16.9(f)] and [N.J.A.C. 7:27-19.5(e)]</p>	<p>Other: Monitored by continuous emission monitoring (CEMS) or by periodic emission monitoring upon performing combustion adjustment. If not using a certified CEMS, monitoring shall be performed in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005.[N.J.A.C. 7:27-19.16(g)].</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage upon performing combustion adjustment or by manual logging of parameter or storing data in a computer data system. The permittee shall record the following information for each adjustment in a log book or computer data system:</p> <ol style="list-style-type: none"> 1. The date and times the adjustment began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentration of NO_x, CO, and O₂ measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment. <p>The records shall be kept for a minimum of 5 years and be readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(h)]</p>	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	<p>N.J.A.C. 7:27-19.25 Exemption for emergency use of fuel oil:</p> <p>The combustion source is not required to comply with the applicable NO_x emission limits in N.J.A.C. 7:27-19, and the owner or operator is not required to adjust the combustion process described in N.J.A.C. 7:27-19.16, while fuel oil or other liquid fuel is burned. The owner or operator of this combustion source is eligible for this exemption only if the following requirements are met:</p> <ol style="list-style-type: none"> 1) The owner or operator is not practicably able to obtain a sufficient amount of natural gas; 2) the owner or operator's inability to obtain natural gas due to circumstances beyond the control of the owner or operator, such as a natural gas curtailment; and 3) the combustion source ceases using fuel oil or other liquid fuel in place of natural gas and resumes using natural gas as soon as a sufficient supply of natural gas becomes practicably available. <p>However, the owner or operator may periodically fire fuel oil or other liquid fuel for testing and maintenance. The owner or operator shall not fire fuel oil or other liquid fuel for testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be unhealthy for sensitive groups, unhealthy, or very unhealthy as shown at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast. [N.J.A.C. 7:27-8.13(a) or N.J.A.C. 7:27-22.16(a)], [N.J.A.C. 7:27-19.25(a)] and [N.J.A.C. 7:27-19.25(c)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain records that include the following:</p> <p>For curtailment periods:</p> <ol style="list-style-type: none"> 1) information sufficient to identify each combustion source for which the owner or operator claims an exemption, including a brief description of the source, its location, its permit number and other identifying numbers, and any other information necessary to distinguish it from other equipment owned and operated by the facility; 2) a statement that the owner or operator is not practicably able to obtain a sufficient supply of natural gas; 3) the date and time at which the owner or operator first became practicably unable to obtain natural gas; and 4) a description of the circumstances causing the owner or operator's inability to obtain natural gas. <p>For testing and maintenance periods: record the date and number of hours that fuel oil or other liquid fuel has been combusted for testing and maintenance. [N.J.A.C. 7:27-19.25(d)]</p>	<p>Submit a report: Annually by March 1 of each year for the preceding calendar year to the Regional Enforcement Office. The annual report shall include:</p> <ol style="list-style-type: none"> 1) information sufficient to identify each combustion source for which the owner or operator claims an exemption, including a brief description of the source, its location, its permit number and other identifying numbers, and any other information necessary to distinguish it from other equipment owned and operated by the facility; 2) a statement that the owner or operator is not practicably able to obtain a sufficient supply of natural gas; 3) the date and time at which the owner or operator first became practicably unable to obtain natural gas; and 4) a description of the circumstances causing the owner or operator's inability to obtain natural gas. The annual report shall also include any violations which occurred during the previous year. If no violations occurred during the year, the owner or operator shall provide certification that no violations occurred and that the records are maintained at the facility. <p>If no fuel oil or other liquid fuel was combusted under the N.J.A.C. 7:27-19.25 exemption during the reporting period, the owner or operator is not required to submit an annual report to the Regional Enforcement Office and shall keep on-site certification in accordance with N.J.A.C. 7:27-1.39 that no fuel oil or other liquid fuel was combusted and that the records are maintained at the facility. [N.J.A.C. 7:27-19.19(g)(2)] & [N.J.A.C. 7:27-19.25(d)]</p>

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Hours of Operation While Firing Fuel Oil <= 500 hours per any 12 consecutive months. Annual limitation on hour of operation under N.J.A.C.7:27-19.25 exemption for emergency use of fuel oil. [N.J.A.C. 7:27-19.25(c)4]	Hours of Operation While Firing Fuel Oil: Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation While Firing Fuel Oil: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the number of hours the fuel oil is combusted monthly and during the consecutive 12 month total. Maintain onsite records that are easily accessible for Department inspection. [N.J.A.C. 7:27-19.19(e)] and [N.J.A.C. 7:27-19.19(f)]	None.
12	NOx (Total) <= 0.75 lb/MW-hr effective from May 1, 2015. NOx RACT emission limit applies during all periods of natural gas combustion during which net useful energy is being produced by the turbine. [N.J.A.C. 7:27-19.5(g)]	<p>NOx (Total): Monitored by continuous emission monitoring system continuously based upon the average of emissions: (i) between May 1 and September 30, over each calendar day; and (ii) from October 1 through April 30 of the following year, over the 30-day period ending on each such day.</p> <p>To calculate the emission rate using the NOx concentration and fuel flow rate, the owner or operator shall use the conversion procedure set forth in the Acid Rain regulations at 40 CFR 75, Appendix F.</p> <p>To calculate pounds/MWh for units where energy is used for other than electric generation, for example useful heat from a combined heat and power unit, that useful energy should be converted to equivalent MWh and added to the electric output. The pounds/MWh is based on net energy output, for both electric output and useful heat output. [N.J.A.C. 7:27-19.15(a)1]</p>	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	An exceedance of an emission limit that occurs during an adjustment of the combustion process under N.J.A.C. 7:27-19.16(g) is not a violation of this subchapter if it occurs as a result of the adjustment. After the combustion adjustment has been completed, the maximum emission rate of any contaminant shall not exceed the maximum allowable emission rate applicable under this subchapter or under an operating permit issued pursuant to N.J.A.C. 7:27-22 or an applicable certificate issued pursuant to N.J.A.C. 7:27-8. [N.J.A.C. 7:27-19.16(f)]	None.	None.	None.
14	NO _x (Total) ≤ 0.1 lb/MMBTU. For Duct Burners (DB#1 & DB #2) while natural gas firing. [N.J.A.C. 7:27-19.7]	None.	None.	None.
15	The duct burner cannot be operated independently of a combustion turbine. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
16	Maximum heat input from preconstruction permit is 556 MMBTU (HHV) per hour firing natural gas and 539 MMBTU (HHV) per hour firing ULSD fuel oil. [N.J.A.C. 7:27-22.16(e)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
17	Annual natural gas use limit for the plant (for CT#1, DB#1, CT#2 and DB#2) only is 10,509 MM cubic feet/any consecutive 365 days, or a maximum of 10,627 MM cubic feet/any consecutive 365 days if no ultra low sulfur distillate (ULSD) oil is consumed. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis). Cubic feet of natural gas consumed during any consecutive 365-day period shall be calculated by adding the natural gas consumption for a given day to the cubic feet of natural gas consumed during the preceeding 364 day period. This procedure will begin the first day following the issuance of the Operating Permit. This accounting will not include natural gas consumption for the days prior to the Operating Permit approval. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Compliance shall be determined based on a 365 consecutive day period computed with daily sums. Records of cumulative fuel consumption and fuel flow rate of natural gas to each turbine and to each duct burner shall be maintained separately. [N.J.A.C. 7:27-22.16(o)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Annual ULSD oil use limit for the cogeneration plant (for Turbine #1 and Turbine #2 only), based on preconstruction permit is 4,083 M gallons/any consecutive 365 days. [N.J.A.C. 7:27-22.16(a)]	<p>Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis). Gallons of ULSD oil consumed during any consecutive 365-day period shall be calculated by adding the oil consumption for a given day to the gallons of oil consumed during the preceeding 364 day period. This procedure will begin the first day following the issuance of the Operating Permit.</p> <p>This accounting will not include ULSD oil consumption for the days prior to the Operating Permit approval. [N.J.A.C. 7:27-22.16(o)]</p>	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Compliance shall be determined based on a 365 consecutive day period computed with daily sums. Records of cumulative fuel consumption and fuel flow rate of light distillate fuel oil to each turbine shall be maintained. [N.J.A.C. 7:27-22.16(o)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	<p>Annual heat input limit for the plant (CT#1, DB#1, CT#2 and DB#2) only) based on 11,048,120 MMBTU(HHV) / any consecutive 365 days.</p> <p>Total annual heat input during any consecutive 365-day period shall be calculated by adding the total heat input for a given day to the total heat input during the preceding 364 day period. Daily MMBTU fuel use shall be calculated using the following formula:</p> $(\text{MMBTU}(\text{HHV})/\text{Day}) = [(\text{Y BTU}/\text{scf}) \times (\text{scf of natural gas consumed by CT\#1, CT\#2, DB\#1 and DB\#2 per day}) + (\text{Y' BTU}/\text{Gal}) \times (\text{gallons of ULSD fuel oil consumed by the CT\#1 and CT\#2 per day})] / 1,000,000.$ <p>Where: Y = Heating Value of Natural Gas (1000 BTU/scf), Y' = Heating Value of ULSD Oil = 132,000 BTU/Gal).</p> <p>This procedure will begin the first day following the issuance of the Operating Permit. This accounting will not include heat input for the days prior to the Operating Permit approval. [N.J.A.C. 7:27-22.16(a)]</p>	Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis). [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
20	CO <= 190.7 tons/yr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations annually, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter annually. [N.J.A.C. 7:27-22.16(o)]	None.
21	VOC (Total) <= 46.2 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	NOx (Total) <= 227.8 tons/yr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations annually, based on a consecutive 12 month period (rolling 1 month basis). Calculations using lb/MMBtu emission rate and annual amount of fuel consumed. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter annually. [N.J.A.C. 7:27-22.16(o)]	None.
23	TSP <= 32.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	SO2 <= 4.2 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	PM-10 (Total) <= 61.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Acetaldehyde <= 0.18 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	Acrolein <= 0.031 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	Arsenic compounds <= 0.0031 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
29	Benzene <= 0.071 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
30	Beryllium compounds <= 0.000093 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
31	Butadiene (1,3-) <= 0.0062 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
32	Cadmium Emissions <= 0.0022 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
33	Cobalt Emissions <= 0.000068 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
34	Ethylbenzene <= 0.14 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
35	Formaldehyde <= 0.19 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
36	Manganese compounds <= 0.213 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
37	Pb <= 0.0025 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	Naphthalene <= 0.016 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
39	Nickel Emissions <= 0.0029 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
40	Polycyclic organic matter <= 0.021 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
41	Propylene oxide <= 0.13 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
42	Ammonia <= 194.7 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
43	Sulfuric Acid Mist Emissions <= 1.11 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
44	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in section 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
45	The owner or operator shall conduct performance tests and data reduced in accordance with the test methods and procedures contained in each applicable subpart, unless otherwise specified and approved by the Administrator. [40 CFR 60.8(b)]	None.	None.	None.
46	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Region II, Director, Air and Waste Management Division, US Environmental Protection Agency, 21st Floor, 290 Broadway, New York, NY 10007. [40 CFR 60.4(a)]	None.	None.	None.
47	The NSPS opacity standard shall apply at all times except during periods of startup, shutdown, malfunctions and as otherwise specified in this permit. [40 CFR 60.11(c)]	None.	None.	None.
48	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
49	Performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of the performance test nor shall emissions in excess of the level of the applicable emission limit be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)]	None.	None.	None.
50	Compliance with NSPS standards specified in this permit, other than opacity, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in NSPS. [40 CFR 60.11(a)]	None.	None.	None.
51	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
52	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
53	Each owner or operator required to install a continuous monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see section 60.7(d)) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each six-month period. [40 CFR 60.7(c)]	None.	Other: Written reports of excess emissions shall include the following information: (1) The magnitude of excess emissions computed in accordance with section 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period and excess emissions. The process operating time during the reporting period. (2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted. (3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. (4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report. [40 CFR 60.7(c)].	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall be postmarked by the 30th day following the end of each six-month period. The report shall be submitted to the EPA Region II Administrator and the appropriate Regional Enforcement Office of NJDEP and be in the format specified at 40 CFR Part 60.7(c) and 40 CFR Part 60.7(d). [40 CFR 60.7(c)]
54	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating 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, opacity observations, review of operation and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
55	The owner or operator shall notify the Administrator of the proposed replacement of components. [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
56	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. [40 CFR 60.7(f)]	None.	Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. [40 CFR 60.7(f)].	None.
57	Except for system breakdowns, repairs, calibration checks, and zero and span adjustments, all continuous monitoring systems referenced by 40 CFR 60.13(c) measuring emissions except opacity shall be in continuous operation. They shall complete a minimum of one cycle of operation (sampling, analyzing and data recording) for each successive 15-minute period. [40 CFR 60.13(e)(2)]	Other: See Applicable Requirement. [40 CFR 60.13(e)(2)].	Other: See Applicable Requirement. [40 CFR 60.13(e)(2)].	None.
58	The owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60.8(e). [40 CFR 60.8(d)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
59	Compliance with all applicable standards must be achieved within 180 days of completion of any physical or operational change subject to the control measures specified in 40 CFR Part 60.14(a). [40 CFR 60.14(g)]	None.	None.	None.
60	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. [40 CFR 60.8(f)]	None.	None.	None.
61	For Turbine: The owner or operator shall submit reports of excess emissions and monitor downtime for Nitrogen oxides. Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined in 40 CFR 60.334(j)(i) or (iii). Any unit operating hour during which the 4-hour rolling average NOx concentration exceeds the applicable NOx emission limit specified in 60.332. [40 CFR 60.334(j)(1)]	None.	None.	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every quarter beginning on the 30th of the 3rd month following initial performance tests. Pursuant to 40 CFR 60.334(j)5, all reports shall be postmarked by the 30th day following the end of each calendar quarter. [40 CFR 60.334(j)(1)]
62	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. [40 CFR 60.12]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
63	All continuous emission monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests specified under 40 CFR Part 60.8. The owner or operator shall follow manufacturer's written recommendations for installation, operation and calibration of the device. [40 CFR 60.13(b)]	During any performance test required under 40 CFR Part 60.8 or within 30 days thereafter, the owner or operator shall conduct a performance evaluation of the continuous emission monitoring system in accordance with applicable performance specification in Appendix B of 40 CFR Part 60. Monitored by other method (provide description) upon occurrence of event, based on an other averaging period (describe). [40 CFR 60.13(c)]	None.	Within 60 days of completion of the performance test, furnish the Administrator two or, upon request, more copies of the results of the performance evaluation. Submit a report: As per the approved schedule. [40 CFR 60.13(c)(2)]
64	The permittee shall comply with all applicable requirements of Cross-State Air Pollution Rule (CSAPR) for the CSAPR NOx Annual Trading Program, CSAPR NOx Ozone Season Trading Program, and CSAPR SO2 Trading Program applicable to this affected unit. [40 CFR 97]	Other: As per the applicable requirement.[40 CFR 97].	Other: As per the applicable requirement.[40 CFR 97].	Other (provide description): Other. As per the applicable requirement. [40 CFR 97]
65	The owner or operator shall perform zero and span adjustments daily for continuous emission monitors and continuous opacity monitors following procedures outlined in 40 CFR Part 60.13(d)1 & 2. [40 CFR 60.13(d)]	None.	Other: Maintain records in accordance with 40 CFR 60.7(f). [40 CFR 60.13(d)].	None.
66	For Turbine Combusting Natural Gas: The owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u) regardless of whether an existing custom schedule approved by the Administrator. [40 CFR 60.334(h)(3)]	None.	None.	Demonstrate compliance: Once initially. The owner or operator shall submit the required determination to the Administrator using the sources of information described in 40 CFR 60.334(h)(3)(i) or (ii) showing the maximum total sulfur content. [40 CFR 60.334(h)(3)]

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
67	All continuous monitoring systems or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of Appendix B of 40 CFR Part 60 shall be used. [40 CFR 60.13(f)]	None.	None.	None.
68	For Turbine: The owner or operator has selected not to monitor nitrogen content of the fuel being fired in the turbine because it has not claimed an allowance for fuel bound nitrogen. [40 CFR 60.334(h)(2)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
69	The owner or operator shall reduce all continuous monitoring systems (other than opacity) data to 1-hour averages which shall be computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. For owners and operators complying with the requirements in 40 CFR 60.7(f)(1) or (2), data averages must include any data recorded during periods of monitor breakdown or malfunction. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O ₂ or ng of pollutant per J of heat input). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit (e.g. rounded to the nearest 1 percent opacity). [40 CFR 60.13(h)]	None.	Other: See Applicable Requirement. [40 CFR 60.13(h)].	None.
70	Upon modifications, emission rates for an affected facility shall be expressed as kg/hr of any pollutant discharged into the atmosphere for which a standard applies. [40 CFR 60.14(b)]	None.	None.	None.
71	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. [40 CFR 60.19]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
72	For Turbine: NOx (Total) <= 75 ppmvd @ 15% O ₂ . [40 CFR 60.332(a)(1)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. [40 CFR 60.334(b)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [40 CFR 60.332(a)(1)]	None.
73	For Turbine Combusting Natural Gas: No owner or operator subject to the provisions of this subpart shall burn any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). Sulfur Content in Fuel <= 0.8 % by weight. [40 CFR 60.333(b)]	None.	None.	Demonstrate compliance: Once initially. The owner or operator shall submit the required determination to the Administrator using the sources of information described in 40 CFR 60.334(h)(3)(i) or (ii) showing the maximum total sulfur content. [40 CFR 60.334(h)(3)]
74	For Turbine Combusting Fuel Oil. No owner or operator subject to the provisions of this subpart shall burn any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). Sulfur Content in Fuel <= 0.8 % by weight. [40 CFR 60.333(b)]	Other: Sulfur Content in Fuel. Per Delivery.[40 CFR 60.335].	Other: Keep certificate of analysis from fuel supplier showing fuel Sulfur content. Per Delivery.[40 CFR 60.334(i)(1)].	Other (provide description): Upon occurrence of event , should any fuel sulfur monitoring indicate noncompliance with 40 CFR 60.333, the owner or operator shall notify the EPA Region II Administrator and the NJDEP Central Region Enforcement Office within fifteen (15) calendar days of the occurrence(s). [40 CFR 60.333(b)]

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 Electricity Generation Plant

Operating Scenario: OS1 Combustion Turbine #1 natural gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 55.6 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 12 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
5	CO <= 12 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	CO <= 10 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
7	CO <= 10 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	NO _x (Total) <= 0.054 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	NO _x (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-19.5(b)]	NO _x (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
9	NO _x (Total) <= 0.054 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	NO _x (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-19.5(b)]	NO _x (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	NOx (Total) <= 29.8 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
11	NOx (Total) <= 29.8 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
12	SO2 <= 0.4 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	TSP <= 2.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	PM-10 (Total) <= 2.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Acetaldehyde <= 0.022 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Acrolein <= 0.0036 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Benzene <= 0.0067 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Butadiene (1,3-) <= 0.00024 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Ethylbenzene <= 0.018 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Formaldehyde <= 0.0065 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Naphthalene <= 0.00072 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Polycyclic organic matter <= 0.0012 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	Propylene oxide <= 0.016 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	Sulfuric Acid Mist Emissions <= 0.13 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Ammonia <= 21 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.
26	Ammonia <= 21 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule , and submit annual report. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
27	Ammonia <= 30 ppmv @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.
28	Ammonia <= 30 ppmv @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
29	The equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	Except for startup, shutdown, and fuel transfer periods, the SCR system shall be operated at all times that the turbine is operating. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event that the turbine is combusting fuel without simultaneous operation of the SCR system, including startup, shutdown and fuel transfer periods. The record shall show the date, start time, end time, total time without control, and name of the person making the entry. [N.J.A.C. 7:27-22.16(o)]	None.
31	The turbine shall not be operated less than 80% of base load. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by MW production continuously.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 Electricity Generation Plant

Operating Scenario: OS2 Combustion Turbine #1 Ultra-Low Sulfur Distillate (ULSD) fuel oil

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. Visual observations should be conducted by a certified smoke reader once every 100 hours of oil firing operation. Monitoring and recordkeeping may occur at a lesser frequency if circumstances prohibit conducting a visual determination (e.g., nighttime operation, weather conditions, unplanned dispatching, etc.) within the 100 hour timeframe. However, in no case shall the interval between visual determinations exceed 125 hours of oil firing operation. If the visual observation occurs at a lesser frequency than every 100 hours of oil firing operation, the reason for monitoring at the lesser frequency shall also be recorded. [N.J.A.C. 7:27- 3.5]	Other: Periodic Visual Observations. Once every 100 hours of oil firing operation. Visual observations shall be conducted by a certified smoke reader once every 100 hours of oil firing operation. Installation and operation of a continuous opacity monitor on a given turbine would be required only if distillate oil operation exceeds 500 hours in a calendar year. If a monitor is required, submittal of a monitoring protocol, pursuant to N.J.A.C. 7:27-22.18(a), to the Bureau of Technical Services would be required within 90 days of exceeding the 500 hour threshold. Installation and operation of the monitor would be required within 180 days of exceeding the 500 hour threshold. Refer to N.J.A.C. 7:27-22.18 and 19 for other applicable requirements.[N.J.A.C. 7:27-22.16(o)].	Other: Manual Logging of Visual Observations. Once every 100 hours of oil firing operation.[N.J.A.C. 7:27-22.16(o)].	None.
2	Particulate Emissions <= 53.9 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	VOC (Total) <= 1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	NOx (Total) <= 0.12 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-19.5(b)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
7	NOx (Total) <= 62.4 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	TSP <= 17 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	PM-10 (Total) <= 14.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 10 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	CO <= 13 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
12	SO2 <= 0.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Arsenic Emissions <= 0.0059 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Benzene <= 0.03 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Beryllium compounds <= 0.00017 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Butadiene (1,3-) <= 0.0086 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Cadmium Emissions <= 0.0026 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Formaldehyde <= 0.15 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Manganese Emissions <= 0.43 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Naphthalene <= 0.019 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Nickel Emissions <= 0.0025 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Pb <= 0.005 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Polycyclic organic matter <= 0.022 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	Sulfuric Acid Mist Emissions <= 0.14 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Ammonia <= 30 ppmv @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.
26	Ammonia <= 23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.
27	Except for startup, shutdown, and fuel transfer periods, the SCR system shall be operated at all times that the turbine is operating. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event that the turbine is combusting fuel without simultaneous operation of the SCR system, including startup, shutdown and fuel transfer periods. The record shall show the date, start time, end time, total time without control, and name of the person making the entry. [N.J.A.C. 7:27-22.16(o)]	None.
28	The turbine shall not be operated less than 80% of base load. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by MW production continuously.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	The equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor, for more than 10 consecutive seconds. Visual observations should be conducted by a certified smoke reader once every 100 hours of oil firing operation. Monitoring and recordkeeping may occur at a lesser frequency if circumstances prohibit conducting a visual determination (e.g., nighttime operation, weather conditions, unplanned dispatching, etc.) within the 100 hour timeframe. However, in no case shall the interval between visual determinations exceed 125 hours of oil firing operation. If the visual observation occurs at a lesser frequency than every 100 hours of oil firing operation, the reason for monitoring at the lesser frequency shall also be recorded. [N.J.A.C. 7:27-22.16(e)]	Other: Periodic Visual Observations. Once every 100 hours of oil firing operation. Visual observations shall be conducted by a certified smoke reader once every 100 hours of oil firing operation. Installation and operation of a continuous opacity monitor on a given turbine would be required only if distillate oil operation exceeds 500 hours in a calendar year. If a monitor is required, submittal of a monitoring protocol, pursuant to N.J.A.C. 7:27-22.18(a), to the Bureau of Technical Services would be required within 90 days of exceeding the 500 hour threshold. Installation and operation of the monitor would be required within 180 days of exceeding the 500 hour threshold. Refer to N.J.A.C. 7:27-22.18 and 19 for other applicable requirements. [N.J.A.C. 7:27-22.16(o)].	Other: Manual Logging of Visual Observations. Once every 100 hours of oil firing operation. [N.J.A.C. 7:27-22.16(o)].	None.
30	Maximum heat input from preconstruction permit is 539 MMBTU (HHV) per hour firing light distillate fuel oil. [N.J.A.C. 7:27-22.16(e)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. Visual observations should be conducted by a certified smoke reader once every 100 hours of oil firing operation. Monitoring and recordkeeping may occur at a lesser frequency if circumstances prohibit conducting a visual determination (e.g., nighttime operation, weather conditions, unplanned dispatching, etc.) within the 100 hour timeframe. However, in no case shall the interval between visual determinations exceed 125 hours of oil firing operation. If the visual observation occurs at a lesser frequency than every 100 hours of oil firing operation, the reason for monitoring at the lesser frequency shall also be recorded. [N.J.A.C. 7:27- 3.5]	Other: Periodic Visual Observations. Once every 100 hours of oil firing operation. Visual observations shall be conducted by a certified smoke reader once every 100 hours of oil firing operation. Installation and operation of a continuous opacity monitor on a given turbine would be required only if distillate oil operation exceeds 500 hours in a calendar year. If a monitor is required, submittal of a monitoring protocol, pursuant to N.J.A.C. 7:27-22.18(a), to the Bureau of Technical Services would be required within 90 days of exceeding the 500 hour threshold. Installation and operation of the monitor would be required within 180 days of exceeding the 500 hour threshold. Refer to N.J.A.C. 7:27-22.18 and 19 for other applicable requirements.[N.J.A.C. 7:27-22.16(o)].	Other: Manual Logging of Visual Observations. Once every 100 hours of oil firing operation.[N.J.A.C. 7:27-22.16(o)].	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 Electricity Generation Plant**Operating Scenario:** OS3 Combustion Turbine #1 startup natural gas, OS5 Combustion Turbine #1 shutdown natural gas, OS13 Combustion Turbine #2 startup natural gas, OS15 Combustion Turbine #2 shutdown natural gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Shutdown Period <= 1 hour. Shutdown shall be defined as that period of time from the initial lowering of turbine output below 80% of base load to the cessation of turbine operation. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by MW production and Hour/Time Monitor, continuously.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Particulate Emissions <= 55.6 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Start-up Period <= 2.5 hours. Startup shall be defined as that period of time from initiation of gas turbine operation until the unit reaches steady state at 80% of base load. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by MW production and Hour/Time Monitor continuously.[N.J.A.C. 7:27-22.16(o)].	Start-up Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 Electricity Generation Plant

Operating Scenario: OS4 Combustion Turbine #1 startup Ultra-Low Sulfur Distillate (ULSD) fuel oil, OS6 Combustion Turbine #1 shutdown Ultra-Low Sulfur Distillate (ULSD) fuel oil, OS7 Combustion Turbine #1 Fuel Transfer Ultra-Low Sulfur Distillate (ULSD) fuel oil, OS14 Combustion Turbine #2 startup Ultra-Low Sulfur Distillate (ULSD) fuel oil, OS16 Combustion Turbine #2 shutdown Ultra-Low Sulfur Distillate (ULSD) fuel oil, OS17 Combustion Turbine #2 Fuel Transfer Ultra-Low Sulfur Distillate (ULSD) fuel oil

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Shutdown Period <= 30 minutes. Shutdown shall be defined as that period of time from the initial lowering of turbine output below 80% of base load to the cessation of turbine operation. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by MW production and Hour/Time Monitor, continuously.[N.J.A.C. 7:27-22.16(o)].	Shutdown Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	Fuel Transfer Period <= 30 minutes. Fuel transfer period shall be defined as that period of time from the initiation of the fuel transfer process between light distillate fuel oil and natural gas fuels, or between natural gas and light distillate fuel oil, including temporary reduction in steam injection, to the completion of this process, not to exceed 30 minutes. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Flow/Firing Rate Instrument and Hour/Time Monitor. Continuously.[N.J.A.C. 7:27-22.16(o)].	Fuel Transfer Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
3	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
4	Particulate Emissions <= 53.9 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
5	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
7	Start-up Period <= 2.5 hours. Startup shall be defined as that period of time from initiation of gas turbine operation until the unit reaches steady state at 80% of base load. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by MW production and Hour/Time Monitor, continuously.[N.J.A.C. 7:27-22.16(o)].	Start-up Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 Electricity Generation Plant

Operating Scenario: OS8 Combustion Turbine #1 and Duct Burner #1 Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions, exclusive of condensed water vapor, except for a period of not longer than three (3) minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 65.6 lb/hr from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Maximum heat input to the duct burner from preconstruction permit is 100 MMBTU (HHV) per hour. [N.J.A.C. 7:27-22.16(e)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
4	NOx (Total) <= 0.054 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-19.5(b)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.054 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-19.5(b)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
6	VOC (Total) <= 5.7 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	NOx (Total) <= 32.6 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	NOx (Total) <= 32.6 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
9	CO <= 23 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
10	CO <= 23 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	CO <= 16 ppm _{dv} @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
12	CO <= 16 ppm _{dv} @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
13	SO ₂ <= 0.48 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	TSP <= 3 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	PM-10 (Total) <= 6.26 lb/hr, based on review of stack test results. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Acetaldehyde <= 0.022 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Acrolein <= 0.0036 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Arsenic Emissions <= 0.0002 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Benzene <= 0.0069 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Beryllium compounds <= 0.0000012 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Butadiene (1,3-) <= 0.00024 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Cadmium Emissions <= 0.00011 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Cobalt Emissions <= 0.000084 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	Ethylbenzene <= 0.018 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Formaldehyde <= 0.014 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Manganese Emissions <= 0.000038 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	Naphthalene <= 0.00078 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	Nickel Emissions <= 0.00021 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
29	Polycyclic organic matter <= 0.0012 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
30	Propylene oxide <= 0.016 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
31	Sulfuric Acid Mist Emissions <= 0.13 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
32	Ammonia <= 21 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.
33	Ammonia <= 21 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule , and submit annual report. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
34	Ammonia <= 30 ppmv @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	Ammonia \leq 30 ppm _{dv} @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
36	The equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
37	Continuous nitrogen oxides (as nitrogen dioxide), carbon monoxide, ammonia, and oxygen monitors and recorders shall be calibrated and operated in order to measure and record the concentrations of these gases emitted from the cogeneration plant exhaust gas stacks (PT1 and PT2). [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Monitor output shall be converted to pounds per hour and cumulative tons per year, then displayed and recorded. [N.J.A.C. 7:27-22.16(o)]	None.
38	Duct Burner fuel is limited to natural gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
39	The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day. [40 CFR 60.48c(g)]	Monitored by fuel flow/firing rate instrument continuously. [40 CFR 60.48c(g)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The owner or operator of the affected facility shall maintain all required records for a period of two years following the date of such record. [40 CFR 60.48c(i)] &. [40 CFR 60.48c(g)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 Electricity Generation Plant

Operating Scenario: OS11 Combustion Turbine #2 natural gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 55.6 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 12 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
5	CO <= 12 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	CO <= 10 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
7	CO <= 10 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	NO _x (Total) <= 0.054 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	NO _x (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-19.5(b)]	NO _x (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
9	NO _x (Total) <= 0.054 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	NO _x (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-19.5(b)]	NO _x (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	NOx (Total) <= 29.8 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
11	NOx (Total) <= 29.8 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
12	SO2 <= 0.4 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	TSP <= 2.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	PM-10 (Total) <= 2.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Acetaldehyde <= 0.022 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Acrolein <= 0.0036 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Benzene <= 0.0067 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Butadiene (1,3-) <= 0.00024 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Ethylbenzene <= 0.018 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Formaldehyde <= 0.0065 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Naphthalene <= 0.00072 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Polycyclic organic matter <= 0.0012 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	Propylene oxide <= 0.016 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	Sulfuric Acid Mist Emissions <= 0.13 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Ammonia <= 21 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.
26	Ammonia <= 21 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule , and submit annual report. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
27	Ammonia <= 30 ppmv @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.
28	Ammonia <= 30 ppmv @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
29	The equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	Except for startup, shutdown, and fuel transfer periods, the SCR system shall be operated at all times that the turbine is operating. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event that the turbine is combusting fuel without simultaneous operation of the SCR system, including startup, shutdown and fuel transfer periods. The record shall show the date, start time, end time, total time without control, and name of the person making the entry. [N.J.A.C. 7:27-22.16(o)]	None.
31	The turbine shall not be operated less than 80% of base load. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by MW production continuously.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 Electricity Generation Plant

Operating Scenario: OS12 Combustion Turbine #2 Ultra-Low Sulfur Distillate (ULSD) fuel oil

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. Visual observations should be conducted by a certified smoke reader once every 100 hours of oil firing operation. Monitoring and recordkeeping may occur at a lesser frequency if circumstances prohibit conducting a visual determination (e.g., nighttime operation, weather conditions, unplanned dispatching, etc.) within the 100 hour timeframe. However, in no case shall the interval between visual determinations exceed 125 hours of oil firing operation. If the visual observation occurs at a lesser frequency than every 100 hours of oil firing operation, the reason for monitoring at the lesser frequency shall also be recorded. [N.J.A.C. 7:27- 3.5]	Other: Periodic Visual Observations. Once every 100 hours of oil firing operation. Visual observations shall be conducted by a certified smoke reader once every 100 hours of oil firing operation. Installation and operation of a continuous opacity monitor on a given turbine would be required only if distillate oil operation exceeds 500 hours in a calendar year. If a monitor is required, submittal of a monitoring protocol, pursuant to N.J.A.C. 7:27-22.18(a), to the Bureau of Technical Services would be required within 90 days of exceeding the 500 hour threshold. Installation and operation of the monitor would be required within 180 days of exceeding the 500 hour threshold. Refer to N.J.A.C. 7:27-22.18 and 19 for other applicable requirements.[N.J.A.C. 7:27-22.16(o)].	Other: Manual Logging of Visual Observations. Once every 100 hours of oil firing operation.[N.J.A.C. 7:27-22.16(o)].	None.
2	Particulate Emissions <= 53.9 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	VOC (Total) <= 1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	NOx (Total) <= 0.12 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-19.5(b)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
7	NOx (Total) <= 62.4 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	CO <= 10 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	CO <= 13 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
10	TSP <= 17 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 14.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 0.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Arsenic Emissions <= 0.0059 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Benzene <= 0.03 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Beryllium compounds <= 0.00017 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Butadiene (1,3-) <= 0.0086 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Cadmium Emissions <= 0.0026 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Formaldehyde <= 0.15 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Manganese Emissions <= 0.43 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Naphthalene <= 0.019 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Nickel Emissions <= 0.0025 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Pb <= 0.005 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Polycyclic organic matter <= 0.022 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	Sulfuric Acid Mist Emissions <= 0.14 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Ammonia <= 30 ppmv @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.
26	Ammonia <= 23 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.
27	Except for startup, shutdown, and fuel transfer periods, the SCR system shall be operated at all times that the turbine is operating. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event that the turbine is combusting fuel without simultaneous operation of the SCR system, including startup, shutdown and fuel transfer periods. The record shall show the date, start time, end time, total time without control, and name of the person making the entry. [N.J.A.C. 7:27-22.16(o)]	None.
28	The turbine shall not be operated less than 80% of base load. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by MW production continuously. [N.J.A.C. 7:27-22.16(o)].	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	The equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor, for more than 10 consecutive seconds. Visual observations should be conducted by a certified smoke reader once every 100 hours of oil firing operation. Monitoring and recordkeeping may occur at a lesser frequency if circumstances prohibit conducting a visual determination (e.g., nighttime operation, weather conditions, unplanned dispatching, etc.) within the 100 hour timeframe. However, in no case shall the interval between visual determinations exceed 125 hours of oil firing operation. If the visual observation occurs at a lesser frequency than every 100 hours of oil firing operation, the reason for monitoring at the lesser frequency shall also be recorded. [N.J.A.C. 7:27-22.16(e)]	Other: Periodic Visual Observations. Once every 100 hours of oil firing operation. Visual observations shall be conducted by a certified smoke reader once every 100 hours of oil firing operation. Installation and operation of a continuous opacity monitor on a given turbine would be required only if distillate oil operation exceeds 500 hours in a calendar year. If a monitor is required, submittal of a monitoring protocol, pursuant to N.J.A.C. 7:27-22.18(a), to the Bureau of Technical Services would be required within 90 days of exceeding the 500 hour threshold. Installation and operation of the monitor would be required within 180 days of exceeding the 500 hour threshold. Refer to N.J.A.C. 7:27-22.18 and 19 for other applicable requirements. [N.J.A.C. 7:27-22.16(o)].	Other: Manual Logging of Visual Observations. Once every 100 hours of oil firing operation. [N.J.A.C. 7:27-22.16(o)].	None.
30	Maximum heat input from preconstruction permit is 539 MMBTU (HHV) per hour firing light distillate fuel oil. [N.J.A.C. 7:27-22.16(e)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 Electricity Generation Plant**Operating Scenario:** OS18 Combustion Turbine #2 and Duct Burner #2 Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions, exclusive of condensed water vapor, except for a period of not longer than three (3) minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 65.6 lb/hr from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Maximum heat input to the duct burner from preconstruction permit is 100 MMBTU (HHV) per hour. [N.J.A.C. 7:27-22.16(e)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
4	NOx (Total) <= 0.054 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-19.5(b)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.054 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-19.5(b)]	NOx (Total): Recordkeeping by stack test results prior to permit expiration date. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
6	VOC (Total) <= 5.7 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	NOx (Total) <= 32.6 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	NOx (Total) <= 32.6 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
9	CO <= 23 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
10	CO <= 23 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	CO <= 16 ppm _{dv} @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
12	CO <= 16 ppm _{dv} @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
13	SO ₂ <= 0.48 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	TSP <= 3 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	PM-10 (Total) <= 6.26 lb/hr, based on review of stack test results. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Acetaldehyde <= 0.022 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Acrolein <= 0.0036 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Arsenic Emissions <= 0.0002 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Benzene <= 0.0069 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Beryllium compounds <= 0.0000012 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Butadiene (1,3-) <= 0.00024 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Cadmium Emissions <= 0.00011 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Cobalt Emissions <= 0.000084 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	Ethylbenzene <= 0.018 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Formaldehyde <= 0.014 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Manganese Emissions <= 0.000038 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	Naphthalene <= 0.00078 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	Nickel Emissions <= 0.00021 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
29	Polycyclic organic matter <= 0.0012 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
30	Propylene oxide <= 0.016 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
31	Sulfuric Acid Mist Emissions <= 0.13 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
32	Ammonia <= 21 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.
33	Ammonia <= 21 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule , and submit annual report. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
34	Ammonia <= 30 ppmv @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	Ammonia \leq 30 ppm _{dv} @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See stack testing requirements at U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]
36	The equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
37	Continuous nitrogen oxides (as nitrogen dioxide), carbon monoxide, ammonia, and oxygen monitors and recorders shall be calibrated and operated in order to measure and record the concentrations of these gases emitted from the cogeneration plant exhaust gas stacks (PT1 and PT2). [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Monitor output shall be converted to pounds per hour and cumulative tons per year, then displayed and recorded. [N.J.A.C. 7:27-22.16(o)]	None.
38	Duct Burner fuel is limited to natural gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
39	The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day. [40 CFR 60.48c(g)]	Monitored by fuel flow/firing rate instrument continuously. [40 CFR 60.48c(g)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The owner or operator of the affected facility shall maintain all required records for a period of two years following the date of such record. [40 CFR 60.48c(i)] &. [40 CFR 60.48c(g)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Starter Diesel Engine #1 and #2 for CT#1 and CT#2

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>STACK TESTING SUMMARY: The permittee shall conduct a stack test no later than every five years (see General Provisions) from the last stack test using an approved protocol to demonstrate compliance with emission limits for CO and NOx as specified in the compliance plan for OS Summary, OS1 and OS2.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under the applicable operating scenarios.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenarios.[N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 12 months prior to the completion of the five year period since the last stack test. The protocol and test report must be prepared and submitted on a CD using the Electronic reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie/ert.</p> <p>Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight) for Zone 4. Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
4	The owner or operator of a stationary reciprocating engines shall adjust the combustion process in accordance with the procedure set forth at N.J.A.C. 7:27-19.16 and in accordance with the manufacturer's recommended procedures and maintenance schedules. [N.J.A.C. 7:27-16.10(e)2]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment. The permittee shall record the following information for each adjustment in a log book or computer data system: 1. The date and times the adjustment began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentration of NOx, CO, and O2 measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment. The records shall be kept for a minimum of 5 years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(h)]	None.
5	NOx (Total) <= 8 grams/brake horsepower-hour. This limit is in effect at all times, including startup, shutdown and maintenance periods and when the diesel starter engines are fired to start the combustion turbines on either natural gas or ULSD. [N.J.A.C. 7:27-19.8(c)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 3.79 lb/MMBTU. This limit is in effect at all times, including startup, shutdown and maintenance periods and when the diesel starter engines are fired to start the combustion turbines on either natural gas or ULSD. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	VOC (Total) <= 0.28 tons/yr. Annual emission limit for both engines based on 225 hours per year operation for each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 2.66 tons/yr. Annual emission limit for both engines based on 225 hours per year operation for each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 0.68 tons/yr. Annual emission limit for both engines based on 225 hours per year operation for each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	SO2 <= 0.21 tons/yr. Annual emission limit for both engines based on 225 hours per year operation for each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.24 tons/yr. Annual emission limit for both engines based on 225 hours per year operation for each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total) <= 0.24 tons/yr. Annual emission limit for both engines based on 225 hours per year operation for each engine. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2d, item 4a to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6603(a)]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow 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 control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, as prescribed in Table 2d, item 4b and 4c to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6603(a)]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow 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 control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
15	The engine must be in compliance with all applicable emission limitations and operating limitations in Subpart ZZZZ of 40 CFR 63 at all times. [40 CFR 63.6605(a)]	None.	None.	None.
16	At all times the owner or operate must operate and maintain a RICE including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.
17	An owner or operator of an existing stationary emergency or black start RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or the owner or operator must 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 control practice for minimizing emissions. [40 CFR 63.6625(e)]	Other: Monitored according to the manufacturer's emission-related written instructions or the maintenance plan developed by the owner or operator. [40 CFR 63.6625(e)].	Other: The owner or operator must keep records of the maintenance procedures. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]	Other: The owner or operator must develop and follow 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 control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Other: The owner or operator must keep records of the maintenance procedures and replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
19	The owner or operator shall comply with the General Provisions as shown in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency or black start CI RICE constructed or reconstructed before June 12, 2006 and located at an area source of HAP emissions except for a residential, commercial, or institutional emergency stationary RICE. [40 CFR 63.6665]	None.	None.	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Starter Diesel Engine #1 and #2 for CT#1 and CT#2

Operating Scenario: OS1 Starting Diesel #1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary internal combustion engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	Opacity: Monitored by visual determination each month during operation , based on an instantaneous determination. The permittee shall observe the stack for visible emissions (exclusive of visible condensed water vapor) once each month if the equipment is used for more than 2 continuous hours during the month. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall record in either a permanent bound log book, or in readily accessible computer memories, that the stack was observed (date and time) and if operation of the equipment causes visible emissions (exclusive of condensed water vapor). [N.J.A.C. 7:27-22.16(o)]	Conduct an inspection: Upon occurrence of event. If visible emissions are observed, the permittee shall refer to the operator manual for corrective action. If measures fail to correct visible emissions within 24 hours of observation, the permittee shall report the incident in writing to the Central Regional Enforcement Office within 3 working days. [N.J.A.C. 7:27-22.16(o)]
2	Opacity <= 10 %. Smoke emissions no greater than 10% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Particulate Emissions <= 1.38 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	CO emission limitation. CO <= 500 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.10(b)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (Please see stack testing requirements at U4, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and every 5 years (based on completion date of the last stack test). (Please see stack testing requirements at U4, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (Please see stack testing requirements at U4, OS Summary). [N.J.A.C. 7:27-22.16(o)]
5	VOC (Total) <= 1.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	NOx (Total) <= 11.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (Please see stack testing requirements at U4, OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and every 5 years (based on completion date of the last stack test). (Please see stack testing requirements at U4, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (Please see stack testing requirements at U4, OS Summary). [N.J.A.C. 7:27-22.16(o)]

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	CO <= 3.02 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. (Please see stack testing requirements at U4, OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). (Please see stack testing requirements at U4, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (Please see stack testing requirements at U4, OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	SO2 <= 0.92 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	TSP <= 1.06 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 1.06 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Hours of Operation <= 225 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year or Data Acquisition system. [N.J.A.C. 7:27-22.16(o)]	None.
12	Maximum Gross Heat Input <= 3.42 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Diesel engine fuel limited to distillate oil. Distillate oil includes #2 fuel oil, low sulfur diesel fuel, or kerosene. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by invoices / bills of lading / certificate of analysis per delivery. [N.J.A.C. 7:27-22.16(o)]	None.

BOP200001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Starter Diesel Engine #1 and #2 for CT#1 and CT#2

Operating Scenario: OS2 Starting Diesel #2

The requirements for this item are identical to those for: U4 OS1

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): EFS Parlin Holdings, LLC

Facility ID (AIMS): 18061

Street 790 WASHINGTON RD
Address: PARLIN, NJ 08859

Mailing 790 WASHINGTON RD
Address: PARLIN, NJ 08859

County: Middlesex
Location
Description:

State Plane Coordinates:	
X-Coordinate:	557,798
Y-Coordinate:	4,479,602
Units:	Feet
Datum:	NAD83
Source Org.:	Other/Unknown
Source Type:	Other/Unknown

Industry:	
Primary SIC:	4911
Secondary SIC:	
NAICS:	221112

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: GE Energy Services

Org. Type: Corporation

Name: Edmund Sidorski

NJ EIN: 26030205200

Title: Facility Manager

Phone: (732) 238-8633 x

Mailing Address: 790 Washington Road

Fax: (732) 390-5891 x

Parlin, NJ 08859

Other: () - x

Type:

Email: edmund.sidorski@ge.com

Contact Type: BOP - Operating Permits

Organization:

Org. Type:

Name:

NJ EIN:

Title:

Phone: () - x

Mailing

Fax: () - x

Address:

Other: () - x

Type:

Email:

Contact Type: Consultant

Organization: The WCM Group, Inc.

Org. Type: Corporation

Name: Kerry S. Higgins

NJ EIN: 26030205200

Title: Vice President, Technical Services

Phone: (281) 446-7070 x

Mailing Address: P.O. Box 3247

Fax: (281) 446-3348 x

Humble, TX 77347-3247

Other: () - x

Type:

Email: khiggins@wcmgroup.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Emission Statements

Organization: GE Energy Services

Org. Type: Corporation

Name: Edmund Sidorski

NJ EIN: 26030205200

Title: Facility Manager

Phone: (732) 238-8633 x

Mailing Address: 790 Washington Road

Fax: (732) 390-5891 x

Parlin, NJ 08859

Other: () - x

Type:

Email: edmund.sidorski@ge.com

Contact Type: Environmental Officer

Organization: GE Energy Services

Org. Type: Corporation

Name: Edmund Sidorski

NJ EIN: 26030205200

Title: Facility Manager

Phone: (732) 238-8633 x

Mailing Address: 790 Washington Road

Fax: (732) 390-5891 x

Parlin, NJ 08859

Other: () - x

Type:

Email: edmund.sidorski@ge.com

Contact Type: Fees/Billing Contact

Organization: GE Energy Services

Org. Type: Corporation

Name: Edmund Sidorski

NJ EIN: 26030205200

Title: Facility Manager

Phone: (732) 238-8633 x

Mailing Address: 790 Washington Road

Fax: (732) 390-5891 x

Parlin, NJ 08859

Other: () - x

Type:

Email: edmund.sidorski@ge.com

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: General Contact

Organization: GE Energy Services

Org. Type: Corporation

Name: Edmund Sidorski

NJ EIN: 26030205200

Title: Facility Manager

Phone: (732) 238-8633 x

Mailing Address: 790 Washington Road

Fax: (732) 390-5891 x

800 Long Ridge Road

Other: () - x

Parlin, NJ 08859

Type:

Email: edmund.sidorski@ge.com

Contact Type: On-Site Manager

Organization: GE Energy Services

Org. Type: Corporation

Name: Edmund Sidorski

NJ EIN: 26030205200

Title: Facility Manager

Phone: (732) 238-8633 x

Mailing Address: 790 Washington Road

Fax: (732) 390-5891 x

Parlin, NJ 08859

Other: () - x

Type:

Email: edmund.sidorski@ge.com

Contact Type: Operator

Organization: GE Energy Services

Org. Type: Corporation

Name: Edmund Sidorski

NJ EIN: 26030205200

Title: Facility Manager

Phone: (732) 238-8633 x

Mailing Address: 790 Washington Road

Fax: (732) 390-5891 x

Parlin, NJ 08859

Other: () - x

Type:

Email: edmund.sidorski@ge.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Owner (Current Primary)

Organization: EFS Parlin Holdings, LLC

Org. Type: Partnership

Name: William P. Poleway

NJ EIN: 26030205200

Title: Vice President

Phone: (203) 229-8593 x

Mailing Address: c/o GE Power Generation Services

Fax: (732) 390-5891 x

901 Main Avenue Suite 2027

Other: () - x

The Towers at Merritt River

Type:

Norwalk, CT 06851

Email: William.Poleway@ge.com

Contact Type: Responsible Official

Organization: EFS Parlin Holdings, LLC

Org. Type: Partnership

Name: William P. Poleway

NJ EIN: 26030205200

Title: Vice President

Phone: (203) 229-8593 x

Mailing Address: c/o GE Power Generation Services

Fax: (732) 390-5891 x

901 Main Avenue Suite 2027

Other: () - x

The Towers at Merritt River

Type:

Norwalk, CT 06851

Email: William.Poleway@ge.com

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	Water Treatment Chemical Tanks Non-Applicable VOC (<0.02 psia) Storage Tanks < 10,000 gallons	Storage Vessel	Facility Wide	0.000	0.000	0.000	0.000	0.006	0.006	0.006	0.00000000	
IS2	Cooling Tower, < 50 lb/hr treatment chemicals added to process	Other Equipment	Facility Wide	0.000	0.000	0.000	0.000	6.100	6.100	0.000	0.00000000	0.000
IS3	Lube Oil Vent < 50 lbs/hr through put	Other Equipment	Facility Wide	0.000	0.000	0.000	0.000	0.500	0.500	0.000	0.00000000	0.000
IS4	Fuel Oil Tanks, Non-Applicable VOC (<0.02 psia)	Storage Vessel	Facility Wide	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
Total				0.000	0.000	0.000	0.000	6.606	6.606	0.006	0.00000000	0.000

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E1	CT#1	Combustion Turbine #1 [556 (Natural Gas) and 539 (ULSD fuel oil) MM Btu/hr]	Combustion Turbine	01-97-0860		No		
E2	CT#2	Combustion Turbine #2 [556 (Natural Gas) and 539 (ULSD fuel oil) MM Btu/hr]	Combustion Turbine	01-97-1409		No		
E3	DB#1	Duct Burner #1 (100 MMBtu/hr)	Duct Burner	01-97-0860		No		
E4	DB#2	Duct Burner #2 (100 MMBtu/hr)	Duct Burner	01-97-1409		No		
E9	Diesel-CT#1	CT#1 Starting Diesel	Stationary Reciprocating Engine	GEN010001		No		
E10	Diesel-CT#2	CT#2 Starting Diesel	Stationary Reciprocating Engine	GEN010002		No		

18061 EFS PARLIN HOLDINGS LLC BOP200001 E1 (Combustion Turbine)
Print Date: 6/2/2022

Make:	<input type="text"/>		
Manufacturer:	<input type="text" value="General Electric"/>		
Model:	<input type="text" value="Frame 6"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="556.00"/>		
Type of Turbine:	<input type="text"/>	Description:	<input type="text"/>
Type of Cycle:	<input type="text" value="Combined-Cycle"/>	Description:	<input type="text"/>
Industrial Application:	<input type="text" value="Electrical Generator"/>	Description:	<input type="text"/>
Power Output:	<input type="text"/>	Units:	<input type="text" value="Megawatts"/>
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input type="checkbox"/>		
Steam Injection:	<input checked="" type="checkbox"/>	Steam to Fuel Ratio:	<input type="text"/>
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	<input type="text"/>
Other:	<input checked="" type="checkbox"/>	Description:	<input type="text" value="SCR"/>
Is the turbine Equipped with a Duct Burner?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Comments:	<input type="text"/>		

18061 EFS PARLIN HOLDINGS LLC BOP200001 E2 (Combustion Turbine)
Print Date: 6/2/2022

Make:			
Manufacturer:	General Electric		
Model:	Frame 6		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	556.00		
Type of Turbine:			
Type of Cycle:	Combined-Cycle	Description:	
Industrial Application:	Electrical Generator	Description:	
Power Output:		Units:	Megawatts
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input type="checkbox"/>		
Steam Injection:	<input checked="" type="checkbox"/>	Steam to Fuel Ratio:	
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	
Other:	<input checked="" type="checkbox"/>	Description:	SCR
Is the turbine Equipped with a Duct Burner?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Comments:			

18061 EFS PARLIN HOLDINGS LLC BOP200001 E3 (Duct Burner)
Print Date: 6/2/2022

Make:	NA
Manufacturer:	NA
Model:	NA
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	100.00
Equipment Type Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

<input checked="" type="radio"/> Yes
<input type="radio"/> No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

<input type="radio"/> Yes
<input checked="" type="radio"/> No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

18061 EFS PARLIN HOLDINGS LLC BOP200001 E4 (Duct Burner)
Print Date: 6/2/2022

Make:	NA
Manufacturer:	NA
Model:	NA
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	100.00
Equipment Type Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

<input checked="" type="radio"/> Yes
<input type="radio"/> No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

<input type="radio"/> Yes
<input checked="" type="radio"/> No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

18061 EFS PARLIN HOLDINGS LLC BOP200001 E9 (Stationary Reciprocating Engine)
Print Date: 6/2/2022

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="Detroit Diesel"/>	
Model:	<input type="text" value="12V-71T 7123-7300"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="3.42"/>	
Class:	<input type="text" value="Other"/>	
Description:	<input type="text" value="Diesel Start Engine"/>	
Duty:	<input type="text" value="Other"/>	
Description:	<input type="text" value="Mechanical Drive"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text"/>	
Power Output (BHP):	<input type="text" value="700"/>	
Electric Output(KW):	<input type="text"/>	
Compression Ratio:	<input type="text"/>	
Ignition Type:	<input type="text" value="Compression"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text" value="2300"/>	
Engine Exhaust Temperature (°F):	<input type="text"/>	
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	
Output Type:	<input type="text"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

18061 EFS PARLIN HOLDINGS LLC BOP200001 E10 (Stationary Reciprocating Engine)
Print Date: 6/2/2022

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="Detroit Diesel"/>	
Model:	<input type="text" value="12V-71T 7123-7300"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="3.42"/>	
Class:	<input type="text" value="Other"/>	
Description:	<input type="text" value="Diesel Start Engine"/>	
Duty:	<input type="text" value="Other"/>	
Description:	<input type="text" value="Mechanical Drive"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text"/>	
Power Output (BHP):	<input type="text" value="700"/>	
Electric Output(KW):	<input type="text"/>	
Compression Ratio:	<input type="text"/>	
Ignition Type:	<input type="text" value="Compression"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text" value="2300"/>	
Engine Exhaust Temperature (°F):	<input type="text"/>	
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	
Output Type:	<input type="text"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

EFS PARLIN HOLDINGS LLC (18061)
BOP200001

Date: 7/26/2022

New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD1	SCR-CT #1	Selective Catalytic Reduction for Combustion Turbine #1	Selective Catalytic Reduction		No		
CD2	SCR-CT #2	Selective Catalytic Reduction for Combustion Turbine #1	Selective Catalytic Reduction		No		

18061 EFS PARLIN HOLDINGS LLC BOP200001 CD1 (Selective Catalytic Reduction)
Print Date: 6/2/2022

Make:	NA
Manufacturer:	Hitachi
Model:	NA
Minimum Temperature at Catalyst Bed (°F):	650
Maximum Temperature at Catalyst Bed (°F):	750
Minimum Temperature at Reagent Injection Point (°F):	
Maximum Temperature at Reagent Injection Point (°F):	
Type of Reagent:	Ammonia ▼
Description:	
Chemical Formula of Reagent:	NH3
Minimum Reagent Charge Rate (gpm):	0.1
Maximum Reagent Charge Rate (gpm):	25
Minimum Concentration of Reagent in Solution (% Volume):	99.9
Minimum NOx to Reagent Mole Ratio:	0.9
Maximum NOx to Reagent Mole Ratio:	1.5
Maximum Anticipated Ammonia Slip (ppm):	30
Type of Catalyst:	Hitachi's Plate Type Catalyst
Volume of Catalyst (ft³):	
Form of Catalyst:	
Anticipated Life of Catalyst:	10
Units:	▼
Have you attached a catalyst replacement schedule?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Method of Determining Breakthrough:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	2
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	NOx CEMS
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

18061 EFS PARLIN HOLDINGS LLC BOP200001 CD1 (Selective Catalytic Reduction)
Print Date: 6/2/2022

Comments:

18061 EFS PARLIN HOLDINGS LLC BOP200001 CD2 (Selective Catalytic Reduction)
Print Date: 6/2/2022

Make:	NA
Manufacturer:	Hitachi
Model:	NA
Minimum Temperature at Catalyst Bed (°F):	650
Maximum Temperature at Catalyst Bed (°F):	750
Minimum Temperature at Reagent Injection Point (°F):	
Maximum Temperature at Reagent Injection Point (°F):	
Type of Reagent:	Ammonia ▼
Description:	
Chemical Formula of Reagent:	NH3
Minimum Reagent Charge Rate (gpm):	0.1
Maximum Reagent Charge Rate (gpm):	25
Minimum Concentration of Reagent in Solution (% Volume):	99.9
Minimum NOx to Reagent Mole Ratio:	0.9
Maximum NOx to Reagent Mole Ratio:	1.5
Maximum Anticipated Ammonia Slip (ppm):	30
Type of Catalyst:	Hitachi's Plate Type Catalyst
Volume of Catalyst (ft³):	
Form of Catalyst:	
Anticipated Life of Catalyst:	10
Units:	▼
Have you attached a catalyst replacement schedule?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Method of Determining Breakthrough:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	2
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	NOx CEMS
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

18061 EFS PARLIN HOLDINGS LLC BOP200001 CD2 (Selective Catalytic Reduction)
Print Date: 6/2/2022

Comments:

EFS PARLIN HOLDINGS LLC (18061)
BOP200001

Date: 7/26/2022

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1	CT #1/DB #1	Combustion Turbine #1 / Duct Burner #1	Round	139	213	30	292.0	260.0	320.0	398,000.0	360,000.0	440,000.0	Up	
PT2	CT #2/DB #2	Combustion Turbine #2 / Duct Burner #2	Round	139	213	30	292.0	260.0	320.0	398,000.0	360,000.0	440,000.0	Up	
PT6	SDE-#1 Stack	Starter Diesel Engine #1 Stack	Round	12	59	110	650.0	600.0	700.0	2,200.0	1,800.0	2,600.0	Up	
PT7	SDE-#2 Stack	Starter Diesel Engine #2 Stack	Round	12	59	110	650.0	600.0	700.0	2,200.0	1,800.0	2,600.0	Up	

EFS PARLIN HOLDINGS LLC (18061)
BOP200001

Date: 7/26/2022

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 1 Elect. Plant Electricity Generation Plant

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	CT#1-N-NG	Combustion Turbine #1 natural gas	Normal - Steady State	E1	CD1 (P)	PT1	2-01-002-01 2-03-001-01				262,000.0	342,000.0	260.0	320.0
OS2	CT#1-N-FO	Combustion Turbine #1 Ultra-Low Sulfur Distillate (ULSD) fuel oil	Normal - Steady State	E1	CD1 (P)	PT1	2-01-001-01 2-03-001-01 2-01-002-01				262,000.0	342,000.0	260.0	320.0
OS3	CT#1-SU-NG	Combustion Turbine #1 startup natural gas	Startup	E1	CD1 (P)	PT1	2-01-002-01 2-03-001-01				79,000.0	262,000.0	260.0	320.0
OS4	CT#1-SU-FO	Combustion Turbine #1 startup Ultra-Low Sulfur Distillate (ULSD) fuel oil	Startup	E1	CD1 (P)	PT1	2-01-001-01 2-03-001-01 2-01-002-01				89,000.0	296,000.0	260.0	320.0
OS5	CT#1-SD-NG	Combustion Turbine #1 shutdown natural gas	Shutdown	E1	CD1 (P)	PT1	2-01-002-01 2-03-001-01				79,000.0	262,000.0	260.0	320.0
OS6	CT#1-SD-FO	Combustion Turbine #1 shutdown Ultra-Low Sulfur Distillate (ULSD) fuel oil	Shutdown	E1	CD1 (P)	PT1	2-01-001-01 2-03-001-01 2-01-002-01				89,000.0	296,000.0	260.0	320.0
OS7	CT#1-FT	Combustion Turbine #1 Fuel Transfer Ultra-Low Sulfur Distillate (ULSD) fuel oil	Normal - Steady State	E1	CD1 (P)	PT1	2-03-001-01 2-01-002-01				89,000.0	296,000.0	260.0	320.0
OS8	CT#1/DB#1-NG	Combustion Turbine #1 and Duct Burner #1 Natural Gas	Normal - Steady State	E1	CD1 (P)	PT1	1-01-006-01 2-03-001-01 2-01-002-01				360,000.0	440,000.0	260.0	320.0
OS11	CT#2-N-NG	Combustion Turbine #2 natural gas	Normal - Steady State	E2	CD2 (P)	PT2	2-01-002-01 2-03-001-01				262,000.0	342,000.0	260.0	320.0

EFS PARLIN HOLDINGS LLC (18061)
BOP200001

Date: 7/26/2022

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 1 Elect. Plant Electricity Generation Plant

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS12	CT#2-N-FO	Combustion Turbine #2 Ultra-Low Sulfur Distillate (ULSD) fuel oil	Normal - Steady State	E2	CD2 (P)	PT2	2-01-001-01 2-03-001-01 2-01-002-01				262,000.0	342,000.0	260.0	320.0
OS13	CT#2-SU-NG	Combustion Turbine #2 startup natural gas	Startup	E2	CD2 (P)	PT2	2-01-002-01 2-03-001-01				79,000.0	262,000.0	260.0	320.0
OS14	CT#2-SU-FO	Combustion Turbine #2 startup Ultra-Low Sulfur Distillate (ULSD) fuel oil	Startup	E2	CD2 (P)	PT2	2-01-001-01 2-03-001-01 2-01-002-01				89,000.0	296,000.0	260.0	320.0
OS15	CT#2-SD-NG	Combustion Turbine #2 shutdown natural gas	Shutdown	E2	CD2 (P)	PT2	2-01-002-01 2-03-001-01				79,000.0	262,000.0	260.0	320.0
OS16	CT#2-SD-FO	Combustion Turbine #2 shutdown Ultra-Low Sulfur Distillate (ULSD) fuel oil	Shutdown	E2	CD2 (P)	PT2	2-01-001-01 2-03-001-01 2-01-002-01				89,000.0	296,000.0	260.0	320.0
OS17	CT#2-FT	Combustion Turbine #2 Fuel Transfer Ultra-Low Sulfur Distillate (ULSD) fuel oil	Normal - Steady State	E2	CD2 (P)	PT2	2-01-002-01 2-03-001-01				89,000.0	296,000.0	260.0	320.0
OS18	CT#2/DB#2-NG	Combustion Turbine #2 and Duct Burner #2 Natural Gas	Normal - Steady State	E2	CD2 (P)	PT2	1-01-005-01 2-03-001-01 2-01-002-01 1-01-006-01				360,000.0	440,000.0	260.0	320.0

EFS PARLIN HOLDINGS LLC (18061)
BOP200001

Date: 7/26/2022

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 4 ST_ENG1and2 Starter Diesel Engine #1 and #2 for CT#1 and CT#2

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	SDE#1-N-FO	Starting Diesel #1	Normal - Steady State	E9		PT6	2-02-001-02				1,800.0	2,600.0	600.0	700.0
OS2	SDE#2-N-FO	Starting Diesel #2	Normal - Steady State	E10		PT7	2-02-001-02				1,800.0	2,600.0	600.0	700.0

Date: 7/26/2022

**New Jersey Department of Environmental Protection
Subject Item Group Inventory**

Group NJID: GR1 RGGI Rules

Members:

Type	ID	OS	Step
U	U 1	OS1 CT#1-N-NG	
U	U 1	OS11 CT#2-N-NG	
U	U 1	OS12 CT#2-N-FO	
U	U 1	OS18 CT#2/DB#2-NG	
U	U 1	OS2 CT#1-N-FO	
U	U 1	OS8 CT#1/DB#1-NG	

Formal Reason(s) for Group/Cap:

☒ Other

Other (explain):

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:



State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02

Trenton, NJ 08625-0420

PHILIP D. MURPHY

Governor

SHEILA Y. OLIVER

Lt. Governor

SHAWN M. LATOURETTE

COMMISSIONER

Attachment 1 : ACID RAIN PERMIT



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

AIR QUALITY, ENERGY AND SUSTAINABILITY

DIVISION OF AIR QUALITY

BUREAU OF STATIONARY SOURCES

401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02
Trenton, NJ 08625-0420

PHILIP D. MURPHY
Governor

SHEILA OLIVER
Lt. Governor

SHAWN M. LATOURETTE
Commissioner

ACID RAIN PERMIT

Issued to: EFS Parlin Holdings, LLC
790 Washington Road
Parlin, NJ 08859

Owned by: EFS Parlin Holdings, LLC
790 Washington Road
Parlin, NJ 08859

Operated by: EFS Parlin Holdings, LLC
790 Washington Road
Parlin, NJ 08859

ORIS Code: 50799

Effective: June 13, 2011 (Coincide with the Operating Permit Date)

This Acid Rain permit is issued under the authority of Chapter 106, P. . 1967 (N.J.S.A. 26:2C-9.2), 42 .S.C. 7401, 7403, 7410, 7426, 7601, and 7651, *et eq.*, and Title V of the Clean Air Act. The owners and operators of each affected unit at this facility shall comply with all of the requirements established in this permit.

Approved by:

A handwritten signature in black ink that reads "Joel Leon".

Joel Leon

Bureau of Stationary Sources

■

1 ■

2 ■

3 ■

4 ■

8

1. 1. 1.

2. 2. 2.

3. 3. 3.

4. 4. 4.

5. 5. 5.

6. 6. 6.

7. 7. 7.

8. 8. 8.

9. 9. 9.

10. 10. 10.

11. 11. 11.

12. 12. 12.

13. 13. 13.

14. 14. 14.

15. 15. 15.

16. 16. 16.

et seq. d

17.



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.

EFS Parlin Holdings, LLC	NJ	50799
Facility (Source) Name	State	Plant Code

STEP 2

Enter the unit ID# for every
affected unit at the affected
source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
001001	Yes
003001	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes



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

The public reporting and record keeping burden for this collection of information is estimated to average 8 hours per response. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. 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.

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.**

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 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.

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.

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.

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 Mark Mellana	
Signature 	Date 3/3/20



Facility Representatives Report January 13, 2011

You specified: Year(s): 2011 Facility: EFS Parlin Holdings, LLC Program(s): All

Year	Facility Name	Facility ID (ORISPL)	Unit ID	Program (s)	Representative (Primary)	Representative (Alternate)
2011	EFS Parlin Holdings, LLC	50799	001001	ARP	Belden, Roy S (603149) Aircraft Services Corporation 800 Long Ridge Road Stamford, CT 06927 Phone: (203) 357-6820 x Fax: (203) 961-5116	
2011	EFS Parlin Holdings, LLC	50799	001001	CAIRNOX	Belden, Roy S (603149) Aircraft Services Corporation 800 Long Ridge Road Stamford, CT 06927 Phone: (203) 357-6820 x Fax: (203) 961-5116	
2011	EFS Parlin Holdings, LLC	50799	001001	CAIROS	Belden, Roy S (603149) Aircraft Services Corporation 800 Long Ridge Road Stamford, CT 06927 Phone: (203) 357-6820 x Fax: (203) 961-5116	
2011	EFS Parlin Holdings, LLC	50799	001001	CAIRSO2	Belden, Roy S (603149) Aircraft Services Corporation 800 Long Ridge Road Stamford, CT 06927 Phone: (203) 357-6820 x Fax: (203) 961-5116	
2011	EFS Parlin Holdings, LLC	50799	001001	RGGI	Belden, Roy S (603149) Aircraft Services Corporation 800 Long Ridge Road Stamford, CT 06927 Phone: (203) 357-6820 x Fax: (203) 961-5116	
2011	EFS Parlin Holdings, LLC	50799	003001	ARP	Belden, Roy S (603149) Aircraft Services Corporation 800 Long Ridge Road Stamford, CT 06927 Phone: (203) 357-6820 x Fax: (203) 961-5116	
2011	EFS Parlin Holdings, LLC	50799	003001	CAIRNOX	Belden, Roy S (603149)	

					Aircraft Services Corporation 800 Long Ridge Road Stamford, CT 06927 Phone: (203) 357-6820 x Fax: (203) 961-5116	
2011	EFS Parlin Holdings, LLC	50799	003001	CAIROS	Belden, Roy S (603149) Aircraft Services Corporation 800 Long Ridge Road Stamford, CT 06927 Phone: (203) 357-6820 x Fax: (203) 961-5116	
2011	EFS Parlin Holdings, LLC	50799	003001	CAIRSO2	Belden, Roy S (603149) Aircraft Services Corporation 800 Long Ridge Road Stamford, CT 06927 Phone: (203) 357-6820 x Fax: (203) 961-5116	
2011	EFS Parlin Holdings, LLC	50799	003001	RGGI	Belden, Roy S (603149) Aircraft Services Corporation 800 Long Ridge Road Stamford, CT 06927 Phone: (203) 357-6820 x Fax: (203) 961-5116	



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.

EFS Parlin Holdings, LLC	NJ	50799
Facility (Source) Name	State	Plant Code

STEP 2

Enter the unit ID# for every
affected unit at the affected
source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
001001	Yes
003001	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes



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

The public reporting and record keeping burden for this collection of information is estimated to average 8 hours per response. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. 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.

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.**

STEP 3

Permit Requirements

Read the standard 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 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.

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.

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.

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 Mark Mellana	
Signature 	Date 3/3/20

Attachment 2

Cross-State Air Pollution Rule (CSAPR) Title V requirements for

- **CSAPR NO_x Annual Trading Program,**
- **CSAPR NO_x Ozone Season Trading Program, and**
- **CSAPR SO₂ Trading Program**

Transport Rule (TR) Trading Program Title V Requirements

TR NO_x Annual Trading Program requirements (40 CFR 97.406)

(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 40 CFR 97.413 through 97.418.

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

- (1) The owners and operators, and the designated representative, of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of TR NO_x Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the TR NO_x Annual emissions limitation and assurance provisions under paragraph (c) below, 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 40 CFR 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) TR 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 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 40 CFR 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.
 - (ii). If total NO_x emissions during a control period in a given year from the TR NO_x Annual units at a TR NO_x Annual source are in excess of the TR NO_x Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A). The owners and operators of the source and each TR NO_x Annual unit at the source shall hold the TR NO_x Annual allowances required for deduction under 40 CFR 97.424(d); and
 - (B). The owners and operators of the source and each TR 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 40 CFR part 97, subpart AAAAA and the Clean Air Act.
- (2) TR NO_x Annual assurance provisions.
 - (i). If total NO_x emissions during a control period in a given year from all TR NO_x Annual units at TR NO_x Annual sources in the 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) TR NO_x Annual allowances available for deduction for such control period under 40 CFR 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 40 CFR 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 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 TR NO_x Annual units at TR NO_x Annual sources in the state for such control period exceed the state assurance level.

- (ii). The owners and operators shall hold the TR NO_x Annual allowances required under paragraph (c)(2)(i) above, 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 such control period.
 - (iii). Total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual sources in the 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 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).
 - (iv). It shall not be a violation of 40 CFR part 97, subpart AAAAA or of the Clean Air Act if total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual sources in the 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 TR NO_x Annual units at TR NO_x Annual sources in the state during a control period exceeds the common designated representative's assurance level.
 - (v). To the extent the owners and operators fail to hold TR NO_x Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (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 TR 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) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.
- (3) Compliance periods.
- (i). A TR NO_x Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
 - (ii). A TR NO_x Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
- (i). A TR NO_x Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_x Annual allowance that was allocated for such control period or a control period in a prior year.

- (ii). A TR NO_x Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_x Annual allowance that was allocated 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 TR NO_x Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart AAAAAA.
- (6) Limited authorization. A TR 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 TR NO_x Annual Trading Program; and
 - (ii). Notwithstanding any other provision of 40 CFR part 97, 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 TR NO_x Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.

- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_x Annual allowances in accordance with 40 CFR part 97, subpart AAAAAA.
- (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each TR NO_x Annual source and each TR 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 40 CFR 97.416 for the designated representative for the source and each TR 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 40 CFR 97.416 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart AAAAAA.
 - (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 TR NO_x Annual Trading Program.
- (2) The designated representative of a TR NO_x Annual source and each TR NO_x Annual unit at the source shall make all submissions required under the TR NO_x Annual Trading Program, except

as provided in 40 CFR 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 40 CFR parts 70 and 71.

(f) Liability.

- (1) Any provision of the TR NO_x Annual Trading Program that applies to a TR NO_x Annual source or the designated representative of a TR NO_x Annual source shall also apply to the owners and operators of such source and of the TR NO_x Annual units at the source.
- (2) Any provision of the TR NO_x Annual Trading Program that applies to a TR NO_x Annual unit or the designated representative of a TR NO_x Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR NO_x Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_x Annual source or TR 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.

TR NO_x Ozone Season Trading Program Requirements (40 CFR 97.506)

(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 40 CFR 97.513 through 97.518.

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

- (1) The owners and operators, and the designated representative, of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.530 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.531 (initial monitoring system certification and recertification procedures), 97.532 (monitoring system out-of-control periods), 97.533 (notifications concerning monitoring), 97.534 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.535 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.530 through 97.535 shall be used to calculate allocations of TR NO_x Ozone Season allowances under 40 CFR 97.511(a)(2) and (b) and 97.512 and to determine compliance with the TR NO_x Ozone Season emissions limitation and assurance provisions under paragraph (c) below, 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 40 CFR 97.530 through 97.535 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) TR NO_x Ozone Season emissions limitation.
 - (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, TR NO_x Ozone Season allowances available for deduction for such control period under 40 CFR 97.524(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Ozone Season units at the source.
 - (ii). If total NO_x emissions during a control period in a given year from the TR NO_x Ozone Season units at a TR NO_x Ozone Season source are in excess of the TR NO_x Ozone Season emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A). The owners and operators of the source and each TR NO_x Ozone Season unit at the source shall hold the TR NO_x Ozone Season allowances required for deduction under 40 CFR 97.524(d); and
 - (B). The owners and operators of the source and each TR NO_x Ozone Season 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 40 CFR part 97, subpart BBBB and the Clean Air Act.
- (2) TR NO_x Ozone Season assurance provisions.
 - (i). If total NO_x emissions during a control period in a given year from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the 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) TR NO_x Ozone Season allowances available for deduction for such control period under 40 CFR 97.525(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.525(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 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 TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state for such control period exceed the state assurance level.
- (ii). The owners and operators shall hold the TR NO_x Ozone Season allowances required under paragraph (c)(2)(i) above, 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 such control period.
 - (iii). Total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the 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 trading budget under 40 CFR 97.510(a) and the state's variability limit under 40 CFR 97.510(b).
 - (iv). It shall not be a violation of 40 CFR part 97, subpart BBBBBB or of the Clean Air Act if total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the 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 TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state during a control period exceeds the common designated representative's assurance level.
 - (v). To the extent the owners and operators fail to hold TR NO_x Ozone Season allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (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 TR NO_x Ozone Season allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBBB and the Clean Air Act.
- (3) Compliance periods.
- (i). A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
 - (ii). A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
- (i). A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_x Ozone

Season allowance that was allocated for such control period or a control period in a prior year.

- (ii). A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_x Ozone Season allowance that was allocated 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 TR NO_x Ozone Season allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart BBBBB.
- (6) Limited authorization. A TR NO_x Ozone Season 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 TR NO_x Ozone Season Trading Program; and
 - (ii). Notwithstanding any other provision of 40 CFR part 97, subpart BBBBB, 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 TR NO_x Ozone Season allowance does not constitute a property right.

(d) Title V permit revision requirements.

- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_x Ozone Season allowances in accordance with 40 CFR part 97, subpart BBBBB.
- (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.530 through 97.535, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each TR NO_x Ozone Season source and each TR NO_x Ozone Season 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 40 CFR 97.516 for the designated representative for the source and each TR NO_x Ozone Season 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 40 CFR 97.516 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart BBBBB.
 - (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 TR NO_x Ozone Season Trading Program.

- (2) The designated representative of a TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall make all submissions required under the TR NO_x Ozone Season Trading Program, except as provided in 40 CFR 97.518. 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 40 CFR parts 70 and 71.

(f) Liability.

- (1) Any provision of the TR NO_x Ozone Season Trading Program that applies to a TR NO_x Ozone Season source or the designated representative of a TR NO_x Ozone Season source shall also apply to the owners and operators of such source and of the TR NO_x Ozone Season units at the source.
- (2) Any provision of the TR NO_x Ozone Season Trading Program that applies to a TR NO_x Ozone Season unit or the designated representative of a TR NO_x Ozone Season unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR NO_x Ozone Season Trading Program or exemption under 40 CFR 97.505 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_x Ozone Season source or TR NO_x Ozone Season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

TR SO₂ Group 1 Trading Program requirements (40 CFR 97.606)

(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 40 CFR 97.613 through 97.618.

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

- (1) The owners and operators, and the designated representative, of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of TR SO₂ Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO₂ Group 1 emissions limitation and assurance provisions under paragraph (c) below, 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 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO₂ emissions requirements.

- (1) TR SO₂ Group 1 emissions limitation.
 - (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, TR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all TR SO₂ Group 1 units at the source.
 - (ii). If total SO₂ emissions during a control period in a given year from the TR SO₂ Group 1 units at a TR SO₂ Group 1 source are in excess of the TR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A). The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall hold the TR SO₂ Group 1 allowances required for deduction under 40 CFR 97.624(d); and
 - (B). The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR part 97, subpart CCCCC and the Clean Air Act.
- (2) TR SO₂ Group 1 assurance provisions.
 - (i). If total SO₂ emissions during a control period in a given year from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO₂ emissions during such control period exceeds the common designated representative's assurance level for the state and

such control period, shall hold (in the assurance account established for the owners and operators of such group) TR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 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 40 CFR 97.625(b), of multiplying—

- (A). The quotient of the amount by which the common designated representative's share of such SO₂ emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such SO₂ emissions exceeds the respective common designated representative's assurance level; and
 - (B). The amount by which total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state for such control period exceed the state assurance level.
- (ii). The owners and operators shall hold the TR SO₂ Group 1 allowances required under paragraph (c)(2)(i) above, 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 such control period.
 - (iii). Total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO₂ emissions exceed the sum, for such control period, of the state SO₂ Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).
 - (iv). It shall not be a violation of 40 CFR part 97, subpart CCCCC or of the Clean Air Act if total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total SO₂ emissions from the TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period exceeds the common designated representative's assurance level.
 - (v). To the extent the owners and operators fail to hold TR SO₂ Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (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 TR SO₂ Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart CCCCC and the Clean Air Act.
- (3) Compliance periods.
- (i). A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.
 - (ii). A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
- (i). A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for such control period or a control period in a prior year.

- (ii). A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated 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 TR SO₂ Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart CCCCC.
- (6) Limited authorization. A TR SO₂ Group 1 allowance is a limited authorization to emit one ton of SO₂ during the control period in one year. Such authorization is limited in its use and duration as follows:
 - (i). Such authorization shall only be used in accordance with the TR SO₂ Group 1 Trading Program; and
 - (ii). Notwithstanding any other provision of 40 CFR part 97, subpart CCCCC, 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 TR SO₂ Group 1 allowance does not constitute a property right.

(d) Title V permit revision requirements.

- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO₂ Group 1 allowances in accordance with 40 CFR part 97, subpart CCCCC.
- (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR part 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
 - (i). The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each TR SO₂ Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart CCCCC.
 - (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 TR SO₂ Group 1 Trading Program.
- (2) The designated representative of a TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall make all submissions required under the TR SO₂ Group 1 Trading Program, except

as provided in 40 CFR 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 40 CFR parts 70 and 71.

(f) Liability.

- (1) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 source or the designated representative of a TR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the TR SO₂ Group 1 units at the source.
- (2) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 unit or the designated representative of a TR SO₂ Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR SO₂ Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO₂ Group 1 source or TR SO₂ Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.