



State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

AIR, ENERGY AND MATERIALS SUSTAINABILITY
Division of Air Quality and Radiation Protection
Bureau of Stationary Sources
401 E. State Street, 2nd floor, P.O. Box 420, Mail Code 401-02
Trenton, NJ 08625-0420

SHAWN M. LATOURETTE
Commissioner

Air Pollution Control Operating Permit Renewal

Permit Activity Number: BOP190002

Program Interest Number: 18072

Mailing Address	Plant Location
CORY R FINN PLANT MANAGER NEXTERA ENERGY RESOURCES 601 JERNEE MILL RD Sayreville, NJ 08872	SAYREVILLE POWER GENERATION LP 601 Jernee Mill Rd Sayreville Middlesex County

Initial Operating Permit Approval Date: February 22, 2001

Operating Permit Approval Date: Draft

Operating Permit Expiration Date: February 21, 2021 (Operating Under 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: <https://dep.nj.gov/boss>. 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 <https://dep.nj.gov/boss>.

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](https://dep.nj.gov/wp-content/uploads/boss/applications-and-forms/administrative-hearing-request-checklist-and-tracking-form.pdf) available at <https://dep.nj.gov/wp-content/uploads/boss/applications-and-forms/administrative-hearing-request-checklist-and-tracking-form.pdf>.

If you have any questions regarding this permit approval, please call Shafi Ahmed at (609) 940-5652.

Approved by:

Joel Leon

Enclosure

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

Facility Name: SAYREVILLE POWER GENERATION LP
Program Interest Number: 18072
Permit Activity Number: BOP190002

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Section A

Facility Name: SAYREVILLE POWER GENERATION LP

Program Interest Number: 18072

Permit Activity Number: BOP190002

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} (total)	Pb	HAPs* (total)	CO ₂ e ²
Emission Units Summary	0.32	6.8	2.27	N/A	0.21	0.21	0.21	N/A	0.0036	
Batch Process Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Group Summary	49.0	964	579	18	54	54	54	N/A	9.82	
Total Emissions	49.32	970.8	581	18	54.2	54.2	54.2	N/A	9.82	1,302,516

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} (total)	Pb	HAPs (total)
Insignificant Source Operations	2.12	N/A	N/A	N/A	0.03	0.02	0.02	N/A	N/A
Non-Source Fugitive Emissions	N/A	N/A	N/A	N/A	1.0	0.02	0.02	N/A	N/A

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 Total CO₂e emissions for the facility.

Section A

Facility Name: SAYREVILLE POWER GENERATION LP

Program Interest Number: 18072

Permit Activity Number: BOP190002

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
Acetaldehyde	0.49
Acrolein	0.08
Benzene	0.15
Butadiene (1,3-)	0.006
Ethylbenzene	0.39
Formaldehyde	8.68
Naphthalene	0.016
Polycyclic Organic Matter	0.012

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

Other Air Contaminant	TPY
Sulfuric Acid Mist	6.14

³ 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: SAYREVILLE POWER GENERATION LP

Program Interest Number: 18072

Permit Activity Number: BOP190002

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. The permittee may not assert an affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit that is based on any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT. An affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit may be asserted by a permittee if:
 - a. The provision or condition of the operating permit is based solely on State or local law; and
 - b. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5.
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 <https://dep.nj.gov/boss/applications-and-forms/> (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: <https://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. Any emission limit values in an operating permit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to three significant figures (e.g. a printed limit of “1 lb/hr” means a limit of “1.00 lb/hr”) except for concentration limits less than 10 parts per million (ppm). For such concentration limits, the emission limit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to two significant figures (e.g. a printed limit of “1 ppm” means a limit of “1.0 ppm”).
26. Testing every five 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: SAYREVILLE POWER GENERATION LP

Program Interest Number: 18072

Permit Activity Number: BOP190002

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	---	10b	---
D	FC	---	3
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D	GR	3	1-5

Section D

Facility Name: SAYREVILLE POWER GENERATION LP

Program Interest Number: 18072

Permit Activity Number: BOP190002

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

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Insignificant Sources (IS):

IS NJID	IS Description	
IS1	Water Treatment Chemicals (< 50 lbs/hr throughput)	7
IS2	Diesel Storage Tank Emissions (< 10,000 gal liq and vp < 0.02 psia)	8
IS3	Vapor Extractors (electric motor fans); Seal Oil Vent; Lube Oil Vent (< 50 lbs/hr throughput)	10
IS4	Parts Washer (< 6 sq ft)	11
IS5	Wastewater Treatment including oil/water separator, open sumps in bldgs (< 100 ppbw TXS and < 3,500 ppbw VOC)	12
IS8	Storage/Use of chemicals (< 10,000 gal liq and vp < 0.02 psia)	13
IS9	Storage/Use of VOC (< 2,000 gal liq)	15
IS10	HRSG Chemical Cleaning (< 50 lbs/hr throughput)	17

Groups (GR):

GR NJID	GR Designation	GR Description	
GR1	CT-1 & CT-2	Two Combined cycle combustion turbines with evaporative cooling equipment upstream of inlet air system, CT1 & CT2, 1388 MMBtu/hr each, NSPS A & GG	18
GR2	CT-1 & CT-2	CO2 Budget Rule (RGGI)	22
GR3	CT-1 & CT-2	Permit Conditions for PACT Rule	32

Emission Units (U):

U NJID	U Designation	U Description	
U1	CT-1	Combined cycle combustion turbine with evaporative cooling equipment upstream of inlet air system, 1388 MMBtu/hr, Subject to NSPS A & NSPS GG	35
U2	CT-2	Combined cycle combustion turbine with evaporative cooling equipment upstream of inlet air system, 1388 MMBtu/hr, Subject to NSPS A & NSPS GG	57
U3	Emerg DFPump	Emergency Diesel Fire Pump, 2.1 MMBtu/hr, 287 HP, 214 KW, Subject to MACT ZZZZ for Area Sources	79

U4	BS EG-1,2,3	Three Black Start Emergency Generators (EG-1, EG-2 & EG-3) - 30.99 MMBtu/hr, 4680 BHP, 3.25 MW Each, Subject to NSPS A & NSPS IIII	88
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SAYREVILLE POWER GENERATION LP (18072)
BOP190002

Date: 2/18/2025

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 230001

Description Five Year Operating Permit Renewal
of Modifications:

BOP190002

**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.

BOP190002

**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.	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. 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]
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)].	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)]
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.

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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]

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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]

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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.

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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, 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.

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

Subject Item: IS1 Water Treatment Chemicals (< 50 lbs/hr throughput)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Throughput <= 50 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
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Subject Item: IS2 Diesel Storage Tank Emissions (< 10,000 gal liq and vp < 0.02 psia)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [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 it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in 1B. [N.J.A.C. 7:27-9.2(a)]	None.	None.	None.
3	Vapor Pressure <= 0.02 psia @ 70 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The operating temperature of the tank shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	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.
6	The tank or vessel shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank or vessel 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.
8	The tank or vessel shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank or vessel, 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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The tank's or vessel's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The percentage by weight of all HAPs collectively in the raw material stored in the tank, or mixed or blended in the vessel, shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
11	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 or vessel meets the above applicable requirements and (3) attests that the tank or vessel is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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

Subject Item: IS3 Vapor Extractors (electric motor fans); Seal Oil Vent; Lube Oil Vent (< 50 lbs/hr throughput)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Opacity <= 20 %. Emissions from lube vent 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(e)]	None.	None.	None.
3	Throughput <= 50 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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Subject Item: IS4 Parts Washer (< 6 sq ft)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total HAPs <= 5 %. Use no more than two gallons of solvents containing greater than five percent VOC content by weight for the cleaning of metal parts. [N.J.A.C. 7:27-16.6(j)]	Total HAPs: Monitored by review of fuel delivery records upon occurrence of event at the time of filling, confirm by MSDS or bill of lading. [N.J.A.C. 7:27-22.16(o)]	Total HAPs: Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery at the time of filling, confirm by MSDS or bill of lading. [N.J.A.C. 7:27-22.16(o)]	None.
2	The parts washer shall use a cleaning solvent which contains less than 5% VOCs, HAPs, or VOCs and HAPs combined. [N.J.A.C. 7:27-16.6(j)]	Monitored by formulation data at the approved frequency Confirm compliance using (Material) Safety Data Sheet (MSDS / SDS) or bill of lading each time cleaning solvent is added to the parts cleaner. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis at the approved frequency of each time cleaning solvent is added to the cleaner. Invoices / bills of lading must show materials being delivered. If VOC / HAP content is not given on the invoice / bill of lading, (Material) Safety Data Sheet (MSDS / SDS) may be used to confirm compliance. [N.J.A.C. 7:27-22.16(o)]	None.
3	The parts washer shall have an open top with a total area that is no greater than 6 square feet (0.56 square meters). [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The parts washer shall be a cold cleaning unit that does not use heated solvent. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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**New Jersey Department of Environmental Protection
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Subject Item: IS5 Wastewater Treatment including oil/water separator, open sumps in bldgs (< 100 ppbw TXS and < 3,500 ppbw VOC)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the use of any oil-water separator unless such separator is covered with a lid while containing any VOC. [N.J.A.C. 7:27-16.6(j)]	Monitored by visual determination each month during operation. [N.J.A.C. 7:27-16.6(i)]	None.	None.
2	The tank's potential to emit each of TXS and each of 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.

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Subject Item: IS8 Storage/Use of chemicals (< 10,000 gal liq and vp < 0.02 psia)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Vapor Pressure <= 0.02 psia @ 70 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	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.
3	The tank or vessel shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank or vessel 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.
5	The tank or vessel shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank or vessel, 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.
6	The tank's or vessel's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The percentage by weight of all HAPs collectively in the raw material stored in the tank, or mixed or blended in the vessel, shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	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 or vessel meets the above applicable requirements and (3) attests that the tank or vessel is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Subject Item: IS9 Storage/Use of VOC (< 2,000 gal liq)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Vapor Pressure <= 0.02 psia @ 70 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	VOC (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
3	The operating temperature of the tank 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 or vessel 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 or vessel 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 or vessel shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank or vessel, 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.
8	The tank's or vessel's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The percentage by weight of all HAPs collectively in the raw material stored in the tank, or mixed or blended in the vessel, 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 or vessel meets the above applicable requirements and (3) attests that the tank or vessel is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Subject Item: IS10 HRSG Chemical Cleaning (< 50 lbs/hr throughput)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Throughput <= 50 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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Subject Item: GR1 Two Combined cycle combustion turbines with evaporative cooling equipment upstream of inlet air system, CT1 & CT2, 1388 MMBtu/hr each, NSPS A & GG

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 964 tons/yr. Annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis) and calculations; and by continuous emission monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	CO <= 579 tons/yr. Annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis) and calculations; and by continuous emission monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 49 tons/yr. Annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis) and calculations. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage daily with emission factor calculations. [N.J.A.C. 7:27-22.16(o)]	None.
4	SO2 <= 18 tons/yr. Annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis) and calculations. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by data acquisition system (DAS) / electronic data storage daily with emission factor calculations. [N.J.A.C. 7:27-22.16(o)]	None.
5	TSP <= 54 tons/yr. Annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis) and calculations. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by data acquisition system (DAS) / electronic data storage daily with emission factor calculations. [N.J.A.C. 7:27-22.16(o)]	None.
6	PM-10 (Total) <= 54 tons/yr. Annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis) and calculations. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage daily with emission factor calculations. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	PM-2.5 (Total) <= 54 tons/yr Annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis) and calculations. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage daily with emission factor calculations. [N.J.A.C. 7:27-22.16(o)]	None.
8	HAPs (Total) <= 9.82 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Acetaldehyde <= 0.49 tons/yr. The annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion and AP42 emission factors 5th edition volume I chapter 3, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Acrolein <= 0.08 tons/yr. The annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion and AP42 emission factors 5th edition volume I chapter 3, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Benzene <= 0.15 tons/yr. The annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion and AP42 emission factors 5th edition volume I chapter 3, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Butadiene (1,3-) <= 0.006 tons/yr. The annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion and AP42 emission factors 5th edition volume I chapter 3, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Ethylbenzene <= 0.39 tons/yr. The annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion and AP42 emission factors 5th edition volume I chapter 3, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Formaldehyde <= 8.68 tons/yr. The annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion and AP42 emission factors 5th edition volume I chapter 3, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Naphthalene <= 0.016 tons/yr. The annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion and AP42 emission factors 5th edition volume I chapter 3, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Polycyclic organic matter <= 0.012 tons/yr. The annual emission limit. Emissions based on 8760 hrs/yr, maximum heat input rate of the combustion turbine in MMBtu/hr (HHV) during natural gas combustion and AP42 emission factors 5th edition volume I chapter 3, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Sulfuric Acid Mist Emissions ≤ 6.14 tons/yr. Annual emission limit. [N.J.A.C. 7:27-22.16(a)]	Sulfuric Acid Mist Emissions: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis) and calculations. [N.J.A.C. 7:27-22.16(o)]	Sulfuric Acid Mist Emissions: Recordkeeping by data acquisition system (DAS) / electronic data storage daily with emission factor calculations. [N.J.A.C. 7:27-22.16(o)]	None.
18	Greenhouse gases as CO ₂ e $\leq 1,302.52$ thousand tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Natural Gas Usage $\leq 24,740$ MMft ³ /yr total combined limit for U1 & U2. Cubic feet of natural gas consumed during any 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 preceding 364 day period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: 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)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

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Subject Item: GR2 CO2 Budget Rule (RGGI)

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>

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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)]

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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.

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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.

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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>

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**New Jersey Department of Environmental Protection
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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]

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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)]

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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>

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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)]

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Subject Item: GR3 Permit Conditions for PACT Rule

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>CO2 <= 1,700 lb/MW-hr.</p> <p>From June 1, 2024 thru May 31, 2027, any existing electrical generating unit (EGU) with a nameplate capacity equal to or greater than 25 MWe shall emit no more than 1,700 pounds of CO2 per MWh gross energy output.</p> <p>Compliance is demonstrated when the CO2 emission rate, determined using procedures in 40 CFR 60.5540(a)(1) through (7), for the initial and each subsequent 12-operating-month rolling average compliance period, is less than or equal to the applicable CO2 emission standard (above). [N.J.A.C. 7:27F-2.5(d)1]</p>	<p>CO2: Monitored by calculations each month during operation, based on a 12-operating-month rolling average. The owner or operator shall use the compliance demonstration procedures at 40 CFR 60.5540 that pertain to EGUs with an output -based emission limit for CO2 by using the procedures in 40 CFR 60.5540(a)(1) through (7) to calculate the CO2 mass emissions.</p> <p>The hourly CO2 mass emissions must be calculated from the fuel use, according to 60.5535(c)(1) through (3) and the generating load must be measured in accordance with 60.5535(d). The calculations shall only be performed for "valid operating hours", as defined in 40 CFR 60.5540(a)(1). [N.J.A.C. 7:27F-2.6(c)]</p>	<p>CO2: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator must comply with the recordkeeping requirements at 40 CFR 60.5560 that pertain to EGUs with an output -based emission limit for CO2 by maintaining records of the information used to demonstrate compliance as specified in 40 CFR 60.7(b) and (f) and 40 CFR 60.5560, in a form suitable and readily available for expeditious review. [N.J.A.C. 7:27F-2.6(d)]</p>	None.
2	<p>CO2 <= 1,300 lb/MW-hr.</p> <p>From June 1, 2027 thru May 31, 2035, any existing electrical generating unit (EGU) with a nameplate capacity equal to or greater than 25 MWe shall emit no more than 1,300 pounds of CO2 per MWh gross energy output.</p> <p>Compliance is demonstrated when the CO2 emission rate, determined using procedures in 40 CFR 60.5540(a)(1) through (7), for the initial and each subsequent 12-operating-month rolling average compliance period, is less than or equal to the applicable CO2 emission standard (above). [N.J.A.C. 7:27F-2.5(d)2]</p>	<p>CO2: Monitored by calculations each month during operation, based on a 12-operating-month rolling average. The owner or operator shall use the compliance demonstration procedures at 40 CFR 60.5540 that pertain to EGUs with an output -based emission limit for CO2 by using the procedures in 40 CFR 60.5540(a)(1) through (7) to calculate the CO2 mass emissions.</p> <p>The hourly CO2 mass emissions must be calculated from the fuel use, according to 60.5535(c)(1) through (3) and the generating load must be measured in accordance with 60.5535(d). The calculations shall only be performed for "valid operating hours", as defined in 40 CFR 60.5540(a)(1). [N.J.A.C. 7:27F-2.6(c)]</p>	<p>CO2: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator must comply with the recordkeeping requirements at 40 CFR 60.5560 that pertain to EGUs with an output -based emission limit for CO2 by maintaining records of the information used to demonstrate compliance as specified in 40 CFR 60.7(b) and (f) and 40 CFR 60.5560, in a form suitable and readily available for expeditious review. [N.J.A.C. 7:27F-2.6(d)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>CO2 ≤ 1,000 lb/MW-hr.</p> <p>On and after June 1, 2035, any existing electrical generating unit (EGU) with a nameplate capacity equal to or greater than 25 MWe shall emit no more than 1,000 pounds of CO2 per MWh gross energy output.</p> <p>Compliance is demonstrated when the CO2 emission rate, determined using procedures in 40 CFR 60.5540(a)(1) through (7), for the initial and each subsequent 12-operating-month rolling average compliance period, is less than or equal to the applicable CO2 emission standard (above). [N.J.A.C. 7:27F-2.5(d)3]</p>	<p>CO2: Monitored by calculations each month during operation, based on a 12-operating-month rolling average. The owner or operator shall use the compliance demonstration procedures at 40 CFR 60.5540 that pertain to EGUs with an output-based emission limit for CO2 by using the procedures in 40 CFR 60.5540(a)(1) through (7) to calculate the CO2 mass emissions.</p> <p>The hourly CO2 mass emissions must be calculated from the fuel use, according to 60.5535(c)(1) through (3) and the generating load must be measured in accordance with 60.5535(d). The calculations shall only be performed for "valid operating hours", as defined in 40 CFR 60.5540(a)(1). [N.J.A.C. 7:27F-2.6(c)]</p>	<p>CO2: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator must comply with the recordkeeping requirements at 40 CFR 60.5560 that pertain to EGUs with an output-based emission limit for CO2 by maintaining records of the information used to demonstrate compliance as specified in 40 CFR 60.7(b) and (f) and 40 CFR 60.5560, in a form suitable and readily available for expeditious review. [N.J.A.C. 7:27F-2.6(d)]</p>	None.
4	<p>CO2 Mass Emissions: The owner or operator shall use the compliance demonstration procedures at 40 CFR 60.5540 that pertain to EGUs with an output-based emission limit for CO2. Calculations of the hourly CO2 (tons/h) and EGU operating times must be done in accordance with 40 CFR 60.5535(c)(1) through (3).</p> <p>Pursuant to 40 CFR 60.5535(c), the owner or operator must implement the applicable procedures in appendix D to 40 CFR 75 to determine hourly EGU heat input rates (MMBtu/h), based on hourly measurements of fuel flow rate and periodic determinations of the gross calorific value (GCV) of each fuel combusted. For each measured hourly heat input rate, use equation G-4 in appendix G to 40 CFR 75 to calculate the hourly CO2 mass emission rate (tons/h). [N.J.A.C. 7:27F-2.6(c)]</p>	<p>Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The owner or operator must comply with the recordkeeping requirements at 40 CFR 60.5560 that pertain to EGUs with an output - based emission limit for CO2.</p> <p>The hourly CO2 (tons/h) and EGU (or stack) operating times used to calculate CO2 mass emissions are required to be recorded under 40 CFR 75.57(e). These data must be used to calculate the hourly CO2 mass emissions. [N.J.A.C. 7:27F-2.6(d)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>Electrical Output: The owner or operator shall use the compliance demonstration procedures at 40 CFR 60.5540 that pertain to EGUs with an output - based emission limit for CO₂.</p> <p>Pursuant to 40 CFR 60.5535 (d), the owner or operator must install, calibrate, maintain, and operate a sufficient number of watt meters to continuously measure and record the hourly gross electric output. These measurements must be performed using 0.2 class electricity metering instrumentation and calibration procedures as specified under ANSI Standards No. C12.20. [N.J.A.C. 7:27F-2.6(c)]</p>	Other: Monitored by watt meter continuously (See Applicable Requirement).[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The owner or operator must comply with the recordkeeping requirements at 40 CFR 60.5560 that pertain to EGUs with an output -based emission limit for CO ₂ by maintaining records of the information used to demonstrate compliance as specified in 40 CFR 60.7(b) and (f) and 40 CFR 60.5560, in a form suitable and readily available for expeditious review. [N.J.A.C. 7:27F-2.6(d)]	None.

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Emission Unit: U1 Combined cycle combustion turbine with evaporative cooling equipment upstream of inlet air system, 1388 MMBtu/hr, Subject to NSPS A & NSPS GG

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>RENEWAL STACK TESTING SUMMARY: The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for CO, NO_x, VOC, TSP, PM-10, PM-2.5 and Formaldehyde as specified in the compliance plan for U1, OS1. The permittee shall provide Emission Measurement Section (EMS) with the turbine load performance curve with the protocol.</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.</p> <p>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NO_x and/or CO, with EMS approval. 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 conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [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: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit.</p> <p>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/ttnchie1/ert. 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 609-530-4041 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 lbs/hour, lb/MMBTU (HHV), ppmvd @ 15% oxygen (for CO, NO_x and VOC), and lb/MW-hr (for NO_x only). [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	The owner or operator shall develop a QA/QC plan for all CEMS/COMS required by this permit. This QA/QC plan shall incorporate at a minimum those procedures outlined in 40 CFR, Part 60, Appendix F and/or 40 CFR, Part 75, Appendix B for CEMS and those procedures outlined in 40 CFR, Part 60, Appendix B, Specification One and 40 CFR, Part 51, Proposed RM 203 for COMS, published Department Technical Manuals or other procedures approved in writing by the Department. The QA/QC plan shall designate a coordinator for the facility who is responsible to ensure that the QA/QC plan is implemented. The Department reserves the right to require the QA/QC plan to be revised at any time based on the results of quarterly EEMPR reviews, inspections, audits or any other information available to the Department. All procedures outlined in the QA/QC plan shall commence upon the completion date of the PST. All redundant CEMS/COMS must undergo the QA/QC procedure. [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)].	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). All quarterly and annual QA data shall be included in quarterly EEMPR reports and kept on file at the facility. The QA data must be made available to the Department upon request. [N.J.A.C. 7:27-22.19(d)]
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 the approved 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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
4	Opacity <= 20 %. Visible emissions from turbine no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
5	Particulate Emissions <= 125.2 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.

U1 Combined cycle combustion turbine with evaporative cooling equipment u

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, complying with 40 CFR 60, Appendix F, Quality Assurance Requirements, including any amendments or supplements thereto, incorporated herein by reference. [N.J.A.C. 7:27-16.9(h)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously (see applicable requirements in U1 OS Summary). [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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
7	CO <= 250 ppmvd @ 15% O ₂ . [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) (see applicable requirements in 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 applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	VOC (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test) (see applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(e)]
9	NO _x (Total) <= 0.75 lb/MW-hr. NO _x RACT emission limit for HEDD turbines applies during all periods of natural gas combustion on and after May 1, 2015. [N.J.A.C. 7:27-19.5(g)]	NO _x (Total): Monitored by continuous emission monitoring system continuously (see applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously (see applicable requirements in U1 OS Summary). [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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	NOx (Total) <= 0.75 lb/MW-hr. NOx RACT emission limit for HEDD turbines apply during all periods of natural gas combustion ((based on net energy output) inclusive of start-up, shutdown and fuel transfer periods)), effective May 1, 2015. [N.J.A.C. 7:27-19.5(g)]	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. The initial demonstration shall be done by November 1, 2015. (See U4 OSO Ref #1 for details). Any NOx testing conducted pursuant to N.J.A.C. 7:27-19 shall be conducted concurrently with CO testing. The applicable NOx emission limits in N.J.A.C. 7:27-19 will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the CO limit in N.J.A.C. 7:27-16.8, 16.9, 16.10, 16.11, or the permit limit for CO, whichever is more stringent, is also met. [N.J.A.C. 7:27-19.5(i)2]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test) (see applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-19.5(i)2]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See U1 OSO Stack Testing Summary for details). [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<p>COMBUSTION ADJUSTMENT: 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. [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.
12	<p>Maximum Gross Heat Input ≤ 1,388 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]</p>	<p>Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]</p>	None.
13	<p>Fuel for the turbine is limited to natural gas only. [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	None.
14	<p>The steam injection system for the gas turbines shall be operating at all times that the gas turbines are combusting fuel except for start-up and shutdown. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by steam-to-fuel monitoring device continuously. The system shall be accurate to within 5%. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The period to achieve steam injection after a unit trip shall be less than 60 minutes. During this time, compliance with the NOx emission limits specified in U1 OS0 and U1 OS1 is required. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
16	The combustion turbine is authorized to be equipped with an evaporative cooling equipment upstream of inlet air system to cool and humidify the gas turbine inlet air. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Evaporative cooling equipment upstream of inlet air system shall only be used on the combustion turbine during periods when the ambient air temperature is above 40 degrees Fahrenheit except for system readiness checks. [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. Record the date of each instance in which evaporative cooling equipment upstream of inlet air system is used. [N.J.A.C. 7:27-22.19(a)]	None.
18	All requests, reports, applications, submittals, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule , submit reports to EPA Region II as required by 40 CFR 60. Send reports to: Director, Air and Waste Management Division, US Environmental Protection Agency, Region II, 290 Broadway, New York, NY 10007-1866. [40 CFR 60.4(a)]
19	Submit a copy of all requests, reports, applications, submittals, and other communication required by 40 CFR to the Central Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: At no specified schedule to the Central Regional Enforcement Office as required by 40 CFR 60. Submit to: Central Regional Enforcement Office New Jersey Department of Environmental Protection 401 East State Street, PO Box 420 Trenton, NJ 08625-0420. [40 CFR 60.4(b)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	<p>Notify the Administrator of any physical or operational change which may increase the emission rate of any air pollutant at least 60 days before the change.</p> <p>A 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 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productivity capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(1)]</p>	None.	None.	Comply with the requirement: Prior to occurrence of event , submit the notification to EPA Region II and the Central Regional Enforcement Office per 40 CFR 60.7. [40 CFR 60.7(a)(4)]
21	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.[40 CFR 60.7(a)(3)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	<p>Notify the Administrator of any physical or operational change which may increase the emission rate of any air pollutant at least 60 days before the change.</p> <p>A 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 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]</p>	None.	None.	Comply with the requirement: Prior to occurrence of event, submit the notification to EPA Region II and the Central Regional Enforcement Office per 40 CFR 60.7. [40 CFR 60.7(a)(4)]
23	<p>Maintain records of the occurrence and duration of equipment startups, shutdowns, or malfunction.</p> <p>Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]</p>	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event of the parameters specified in 40 CFR 60.7(b). [40 CFR 60.7(b)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	<p>Submit excess emissions and monitoring systems performance report and/or a summary report to the EPA Region II Administrator and the Central Regional Enforcement Office.</p> <p>Each owner or operator required to install a continuous monitoring system (CMS) or 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 40 CFR 60.7(d) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; 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.</p> <p>All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). [40 CFR 60.7(c)]</p>	None.	<p>Other: Written reports of excess emissions shall include the following information:</p> <p>(1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.</p> <p>(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.</p> <p>(3) The date and time identifying each period during which the continuous monitoring system was inoperative, except for zero and span checks and nature of the system repairs or adjustments.</p> <p>(4) When excess emissions have occurred or the continuous monitoring system(s) have not been operative, repaired, or adjusted, such information shall be stated in the report.[40 CFR 60.7(c)].</p>	<p>Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every six months on January 1 and July 1 of each year but started no sooner than three months after the effective date of the approved permit. The first report shall include data for the three months preceding the reporting half-year, if applicable..</p> <p>The report shall be submitted to the EPA Region II Administrator, to the NJDEP Central Regional Enforcement Office; and be in a format as specified at 40 CFR Part 60.7(c) and. [40 CFR 60.7(d)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Any owner or operator subject to the provisions of this part shall maintain a file of 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; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. [40 CFR 60.7(f)]	None.	Other: See Applicable Requirement.[40 CFR 60.7(f)].	None.
26	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.
27	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.
28	ACID RAIN: The permittee shall comply with all of the requirements of the Phase II Acid Rain Permit issued for this affected unit. [40 CFR 72]	Other: See attached Phase II Acid Rain Permit (Appendix I).[40 CFR 72].	Other: See attached Phase II Acid Rain Permit (Appendix I).[40 CFR 72].	Other (provide description): Demonstrate compliance. See attached Phase II Acid Rain Permit (Appendix I). [40 CFR 72]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	CROSS-STATE AIR POLLUTION RULE (CSAPR): The permittee shall comply with all the attached requirements of Cross-State Air Pollution Rule (CSAPR) for the CSAPR NOx Annual Trading Program, CSAPR NOx Ozone Season Trading Program, and CSAPR SO2 Group 1 Trading Program applicable to this affected unit. See CSAPR Attachment. [40 CFR 97]	Other: See the monitoring requirements in the CSAPR Attachment.[40 CFR 97].	Other: See the recordkeeping requirements in the CSAPR Attachment.[40 CFR 97].	Other (provide description): Other See the submittal requirements in the CSAPR Attachment. [40 CFR 97]

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Emission Unit: U1 Combined cycle combustion turbine with evaporative cooling equipment upstream of inlet air system, 1388 MMBtu/hr, Subject to NSPS A & NSPS GG

Operating Scenario: OS1 Natural Gas Combustion, Normal Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 10 %. Visible emissions no greater than 10% opacity, exclusive of visible condensed water, except for a maximum of three minutes out of any 30 minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 25 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	NOx (Total): Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
3	NOx (Total) <= 25 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]
4	NOx (Total) <= 0.092 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	NOx (Total): Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	NO _x (Total) ≤ 0.092 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	Other: Data acquisition system (DAS)/electronic data storage and stack test results (see applicable requirements at Ref #1,2,3 in 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 applicable requirements at Ref #1,2,3 in OS Summary). [N.J.A.C. 7:27-22.16(e)]
6	NO _x (Total) ≤ 129 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	NO _x (Total): Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	NO _x (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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
7	NO _x (Total) ≤ 129 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	CO ≤ 25 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	CO: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	CO: 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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
9	CO ≤ 25 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO <= 0.059 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	CO: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	CO: 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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
11	CO <= 0.059 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	Other: Data acquisition system (DAS)/electronic data storage and stack test results (see applicable requirements at Ref #1,2,3 in 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 applicable requirements at Ref #1,2,3 in OS Summary). [N.J.A.C. 7:27-22.16(e)]
12	CO <= 82.5 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	CO: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	CO: 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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
13	CO <= 82.5 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	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 applicable requirements in 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 applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]
14	VOC (Total) <= 4 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(a)]	VOC (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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	VOC (Total) <= 0.0055 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	VOC (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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements at Ref #1,2,3 in OS Summary). [N.J.A.C. 7:27-22.16(o)]
16	VOC (Total) <= 7.7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]
17	SO2 <= 0.00164 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	SO2 <= 2.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	TSP <= 0.015 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	TSP: 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]
20	TSP <= 21.4 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	TSP: 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]
21	PM-10 (Total) <= 0.015 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	PM-10 (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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]
22	PM-10 (Total) <= 21.4 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	PM-10 (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on each of three Department validated stack test runs (see applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	PM-2.5 (Total) \leq 0.015 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	PM-2.5 (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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]
24	PM-2.5 (Total) \leq 21.4 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	PM-2.5 (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on each of three Department validated stack test runs (see applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]
25	Acrolein \leq 0.009 lb/hr. Hourly emission limit based on AP-42 emission factor 5th edition volume I chapter 3 , Table 3.1-3 emissions factor, natural gas heating value of 1020 MMBtu/MMScf and maximum permitted heat input in MMBtu/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Benzene \leq 0.017 lb/hr. Hourly emission limit based on AP-42 emission factor 5th edition volume I chapter 3 , Table 3.1-3 emissions factor, natural gas heating value of 1020 MMBtu/MMScf and maximum permitted heat input in MMBtu/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	Formaldehyde \leq 0.99 lb/hr. Hourly emission limit based on AP-42 emission factor 5th edition volume I chapter 3 , Table 3.1-3 emissions factor, natural gas heating value of 1020 MMBtu/MMScf and maximum permitted heat input in MMBtu/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in 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 applicable requirements in U1 OS Summary). [N.J.A.C. 7:27-22.16(o)]
28	Polycyclic organic matter \leq 0.0013 lb/hr. Hourly emission limit based on AP-42 emission factor 5th edition volume I chapter 3 , Table 3.1-3 emissions factor, natural gas heating value of 1020 MMBtu/MMScf and maximum permitted heat input in MMBtu/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

U1 Combined cycle combustion turbine with evaporative cooling equipment u

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Sulfuric Acid Mist Emissions \leq 0.0005 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
30	Sulfuric Acid Mist Emissions \leq 0.7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
31	Butadiene (1,3-) \leq 0.0006 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
32	Naphthalene \leq 0.0018 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
33	Acetaldehyde \leq 0.056 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
34	Ethylbenzene \leq 0.044 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
35	NO _x (Total) \leq 75 ppmvd @ 15% O ₂ . [40 CFR 60.332(a)(1)]	NO _x (Total): Monitored by stack emission testing once initially, based on each of three Department validated stack test runs. Test methods and procedures shall be consistent with the requirements of 40 CFR Part 60.335. Performance testing is not required for any emergency fuel as defined in 40 CFR 60.331. [40 CFR 60.335]	None.	None.
36	Sulfur Content in Fuel \leq 0.8 % by weight. 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). [40 CFR 60.333(b)]	Other: Test methods and procedures shall be consistent with the requirements of 40 CFR Part 60.334(h) and 60.335. A minimum of three fuel samples shall be collected during the performance test. [40 CFR 60.335].	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	The owner or operator may, as alternative to operating the continuous monitoring system described in 40 CFR 60.334(a), install, certify, maintain operate, and quality-assure a continuous monitoring system (CEMS) consisting of NO _x and O ₂ monitors. As an alternative, a CO ₂ monitor may be used to adjust the measured NO _x concentrations. Each CEMS must be installed and certified according to PS 2 and 3 of 40 CFR Part 60 Appendix B. If the owner or operator has installed a NO _x CEMS to meet the requirements 40 CFR Part 75 and is continuing to meet the ongoing requirements of 40 CFR Part 75, the CEMS may be used to meet the requirements of this section. If CEMS in conformance with 40 CFR Part 75 is used, periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance report. [40 CFR 60.334(b)]	Monitored by continuous emission monitoring system continuously. [40 CFR 60.334]	None.	None.
38	The owner or operator may elect not to monitor nitrogen content of the fuel being fired in the turbine if the owner or operator does not claim an allowance for fuel bound nitrogen. [40 CFR 60.334(h)(2)]	None.	None.	Demonstrate compliance: Once initially. The owner or operator does not claim an allowance for fuel bound nitrogen. The allowable NO _x emission concentration included in this permit was calculated in accordance with 40 CFR 60.332(a). In calculations, NO _x emission allowance (F-value) of zero was accepted. [40 CFR 60.334(h)(2)]
39	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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	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)(1)(iii) as follows: (iii) for turbines using NOx and diluent CEMS - 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): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. Each report shall include the average steam or water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, as applicable and, (if applicable) the nitrogen content of the fuel during each excess emission. Pursuant to 40 CFR 60.334(j)5, all reports shall be postmarked by the 30th day following the end of each 6-month period. [40 CFR 60.334(j)(1)]

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Emission Unit: U1 Combined cycle combustion turbine with evaporative cooling equipment upstream of inlet air system, 1388 MMBtu/hr, Subject to NSPS A & NSPS GG

Operating Scenario: OS2 Turbine start-up/shutdown

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Start-up Period <= 150 minutes. Start-up includes the period of time for successful gas turbine unit ignition, available steam for NOx control, and compliance with emission limits. [N.J.A.C. 7:27-22.16(a)]	Other: Hour/time monitor. Each start-up.[N.J.A.C. 7:27-22.16(o)].	Start-up Period: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
2	Shutdown Period <= 120 minutes. Shutdown shall be defined as that period of time after which NOx control steam is no longer available until the cessation of fuel flow to the gas turbine. [N.J.A.C. 7:27-22.16(a)]	Other: Hour/time monitor. Each shutdown.[N.J.A.C. 7:27-22.16(o)].	Shutdown Period: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
3	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
4	CO <= 250 ppmv @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously , based upon the average of emissions over one calendar day, not including periods of equipment downtime. [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [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. [N.J.A.C. 7:27-22.16(o)]
5	VOC (Total) <= 50 ppmv @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	NOx (Total) <= 0.75 lb/MW-hr. [N.J.A.C. 7:27-19.5(g)1]	Other: Monitored by a continuous emission monitoring system, based upon a calendar day between May 1 and September 30, and a 30 day rolling average between October 1 and April 30. [N.J.A.C. 7:27-19.15(a)1]. NOTE: A 30-day rolling average NOx emission rate is the arithmetic average of all hourly NOx emission data measured by the continuous emission monitoring equipment for a given day and the twenty-nine unit operating days immediately preceding that unit operating day.[40 CFR 60.4380(b)(1)].	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage at the approved frequency. [N.J.A.C. 7:27-19.15(a)1]	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. [N.J.A.C. 7:27-22.16(o)]
7	PM-10 (Total) <= 6.79 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 6.79 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 3.72 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	VOC (Total) <= 0.91 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	NOx (Total) <= 402.7 lb/hr. [N.J.A.C. 7:27-27.22(a)]	None.	None.	None.
12	CO <= 152.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	SO2 <= 2.22 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Formaldehyde <= 0.99 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Benzene <= 0.017 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Acrolein <= 0.009 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Polycyclic organic matter <= 0.0013 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Butadiene (1,3-) <= 0.0006 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Naphthalene <= 0.0018 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Acetaldehyde <= 0.056 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Ethylbenzene <= 0.044 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Emission Unit: U2 Combined cycle combustion turbine with evaporative cooling equipment upstream of inlet air system, 1388 MMBtu/hr, Subject to NSPS A & NSPS GG

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>RENEWAL STACK TESTING SUMMARY: The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for CO, NO_x, VOC, TSP, PM-10, PM-2.5 and Formaldehyde as specified in the compliance plan for U2 OS1. The permittee shall provide EMS with the turbine load performance curve with the protocol.</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.</p> <p>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NO_x and/or CO, with EMS approval. 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 conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [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: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit.</p> <p>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 BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. 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 609-530-4041 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 lbs/hour, lb/MMBTU (HHV), ppmvd @ 15% oxygen (for CO, NO_x and VOC), and lb/MW-hr (for NO_x only). [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	The owner or operator shall develop a QA/QC plan for all CEMS/COMS required by this permit. This QA/QC plan shall incorporate at a minimum those procedures outlined in 40 CFR, Part 60, Appendix F and/or 40 CFR, Part 75, Appendix B for CEMS and those procedures outlined in 40 CFR, Part 60, Appendix B, Specification One and 40 CFR, Part 51, Proposed RM 203 for COMS, published Department Technical Manuals or other procedures approved in writing by the Department. The QA/QC plan shall designate a coordinator for the facility who is responsible to ensure that the QA/QC plan is implemented. The Department reserves the right to require the QA/QC plan to be revised at any time based on the results of quarterly EEMPR reviews, inspections, audits or any other information available to the Department. All procedures outlined in the QA/QC plan shall commence upon the completion date of the PST. All redundant CEMS/COMS must undergo the QA/QC procedure. [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)].	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). All quarterly and annual QA data shall be included in quarterly EEMPR reports and kept on file at the facility. The QA data must be made available to the Department upon request. [N.J.A.C. 7:27-22.19(d)]
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 the approved 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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
4	Opacity <= 20 %. Visible emissions from turbine no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
5	Particulate Emissions <= 125.2 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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, complying with 40 CFR 60, Appendix F, Quality Assurance Requirements, including any amendments or supplements thereto, incorporated herein by reference. [N.J.A.C. 7:27-16.9(h)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously (see applicable requirements in U2 OS Summary). [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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
7	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by stack emission testing prior to permit expiration date (see applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event (see applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date (see applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(e)]
9	NO _x (Total) <= 0.75 lb/MW-hr. NO _x RACT emission limit for HEDD turbines applies during all periods of natural gas combustion on and after May 1, 2015. [N.J.A.C. 7:27-19.5(g)]	NO _x (Total): Monitored by continuous emission monitoring system continuously (see applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously (see applicable requirements in U2 OS Summary). [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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	NO _x (Total) ≤ 0.75 lb/MW-hr. NO _x RACT emission limit for HEDD turbines apply during all periods of natural gas combustion ((based on net energy output) inclusive of start-up, shutdown and fuel transfer periods)), effective May 1, 2015. [N.J.A.C. 7:27-19.5(g)]	NO _x (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. The initial demonstration shall be done by November 1, 2015. (See U2 OSO Ref #1 for details). Any NO _x testing conducted pursuant to N.J.A.C. 7:27-19 shall be conducted concurrently with CO testing. The applicable NO _x emission limits in N.J.A.C. 7:27-19 will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the CO limit in N.J.A.C. 7:27-16.8, 16.9, 16.10, 16.11, or the permit limit for CO, whichever is more stringent, is also met. [N.J.A.C. 7:27-19.5(i)2]	NO _x (Total): Recordkeeping by stack test results once initially and prior to permit expiration date (see applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-19.5(i)2]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See U2 OSO Stack Testing Summary for details). [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<p>COMBUSTION ADJUSTMENT: 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. [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.
12	<p>Maximum Gross Heat Input ≤ 1,388 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]</p>	<p>Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]</p>	None.
13	<p>Fuel for the turbine is limited to natural gas only. [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	None.
14	<p>The steam injection system for the gas turbines shall be operating at all times that the gas turbines are combusting fuel except for start-up and shutdown. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by steam-to-fuel monitoring device continuously. The system shall be accurate to within 5%. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The period to achieve steam injection after a unit trip shall be less than 60 minutes. During this time, compliance with the NOx emission limits specified in U2 OS0 and U2 OS1 is required. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
16	The combustion turbine is authorized to be equipped with an evaporative cooling equipment upstream of inlet air system to cool and humidify the gas turbine inlet air. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Evaporative cooling equipment upstream of inlet air system shall only be used on the combustion turbine during periods when the ambient air temperature is above 40 degrees Fahrenheit except for system readiness checks. [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. Record the date of each instance in which evaporative cooling equipment upstream of inlet air system is used. [N.J.A.C. 7:27-22.19(a)]	None.
18	All requests, reports, applications, submittals, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule , submit reports to EPA Region II as required by 40 CFR 60. Send reports to: Director, Air and Waste Management Division, US Environmental Protection Agency, Region II, 290 Broadway, New York, NY 10007-1866. [40 CFR 60.4(a)]
19	Submit a copy of all requests, reports, applications, submittals, and other communication required by 40 CFR to the Central Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: At no specified schedule to the Central Regional Enforcement Office as required by 40 CFR 60. Submit to: Central Regional Enforcement Office New Jersey Department of Environmental Protection 401 East State Street, PO Box 420 Trenton, NJ 08625-0420. [40 CFR 60.4(b)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	<p>Notify the Administrator of any physical or operational change which may increase the emission rate of any air pollutant at least 60 days before the change.</p> <p>A 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 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productivity capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(1)]</p>	None.	None.	Comply with the requirement: Prior to occurrence of event , submit the notification to EPA Region II and the Central Regional Enforcement Office per 40 CFR 60.7. [40 CFR 60.7(a)(4)]
21	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.[40 CFR 60.7(a)(3)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	<p>Notify the Administrator of any physical or operational change which may increase the emission rate of any air pollutant at least 60 days before the change.</p> <p>A 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 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]</p>	None.	None.	Comply with the requirement: Prior to occurrence of event, submit the notification to EPA Region II and the Central Regional Enforcement Office per 40 CFR 60.7. [40 CFR 60.7(a)(4)]
23	<p>Maintain records of the occurrence and duration of equipment startups, shutdowns, or malfunction.</p> <p>Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]</p>	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event of the parameters specified in 40 CFR 60.7(b). [40 CFR 60.7(b)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	<p>Submit excess emissions and monitoring systems performance report and/or a summary report to the EPA Region II Administrator and the Central Regional Enforcement Office.</p> <p>Each owner or operator required to install a continuous monitoring system (CMS) or 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 40 CFR 60.7(d) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; 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.</p> <p>All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). [40 CFR 60.7(c)]</p>	None.	<p>Other: Written reports of excess emissions shall include the following information:</p> <p>(1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.</p> <p>(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.</p> <p>(3) The date and time identifying each period during which the continuous monitoring system was inoperative, except for zero and span checks and nature of the system repairs or adjustments.</p> <p>(4) When excess emissions have occurred or the continuous monitoring system(s) have not been operative, repaired, or adjusted, such information shall be stated in the report.[40 CFR 60.7(c)].</p>	<p>Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every six months on January 1 and July 1 of each year but started no sooner than three months after the effective date of the approved permit. The first report shall include data for the three months preceding the reporting half-year, if applicable..</p> <p>The report shall be submitted to the EPA Region II Administrator, to the NJDEP Central Regional Enforcement Office; and be in a format as specified at 40 CFR Part 60.7(c) and. [40 CFR 60.7(d)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Any owner or operator subject to the provisions of this part shall maintain a file of 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; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. [40 CFR 60.7(f)]	None.	Other: See Applicable Requirement.[40 CFR 60.7(f)].	None.
26	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.
27	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.
28	ACID RAIN: The permittee shall comply with all of the requirements of the Phase II Acid Rain Permit issued for this affected unit. [40 CFR 72]	Other: See attached Phase II Acid Rain Permit (Appendix I).[40 CFR 72].	Other: See attached Phase II Acid Rain Permit (Appendix I).[40 CFR 72].	Other (provide description): Demonstrate compliance. See attached Phase II Acid Rain Permit (Appendix I). [40 CFR 72]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	CROSS-STATE AIR POLLUTION RULE (CSAPR): The permittee shall comply with all the attached requirements of Cross-State Air Pollution Rule (CSAPR) for the CSAPR NOx Annual Trading Program, CSAPR NOx Ozone Season Trading Program, and CSAPR SO2 Group 1 Trading Program applicable to this affected unit. See CSAPR Attachment. [40 CFR 97]	Other: See the monitoring requirements in the CSAPR Attachment.[40 CFR 97].	Other: See the recordkeeping requirements in the CSAPR Attachment.[40 CFR 97].	Other (provide description): Other See the submittal requirements in the CSAPR Attachment. [40 CFR 97]

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Emission Unit: U2 Combined cycle combustion turbine with evaporative cooling equipment upstream of inlet air system, 1388 MMBtu/hr, Subject to NSPS A & NSPS GG

Operating Scenario: OS1 Natural Gas Combustion, Normal Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 10 %. Visible emissions no greater than 10% opacity, exclusive of visible condensed water, except for a maximum of three minutes out of any 30 minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 25 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	NOx (Total): Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
3	NOx (Total) <= 25 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage prior to permit expiration date (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
4	NOx (Total) <= 0.092 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	NOx (Total): Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]

**New Jersey Department of Environmental Protection
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	NO _x (Total) ≤ 0.092 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	NO _x (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	Other: Data acquisition system (DAS)/electronic data storage and stack test results (see applicable requirements at Ref #1,2,3 in 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 applicable requirements at Ref #1,2,3 in OS Summary). [N.J.A.C. 7:27-22.16(o)]
6	NO _x (Total) ≤ 129 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	NO _x (Total): Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	NO _x (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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
7	NO _x (Total) ≤ 129 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	CO ≤ 25 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	CO: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	CO: 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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
9	CO ≤ 25 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO <= 0.059 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	CO: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	CO: 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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
11	CO <= 0.059 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	Other: Data acquisition system (DAS)/electronic data storage and stack test results (see applicable requirements at Ref #1,2,3 in 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 applicable requirements at Ref #1,2,3 in OS Summary). [N.J.A.C. 7:27-22.16(o)]
12	CO <= 82.5 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	CO: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	CO: 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). Submit reports electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.19(d)]
13	CO <= 82.5 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	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 applicable requirements in U2 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 applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
14	VOC (Total) <= 4 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(a)]	VOC (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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
15	VOC (Total) <= 0.0055 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	VOC (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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements at Ref #1,2,3 in OS Summary). [N.J.A.C. 7:27-22.16(o)]

U2 Combined cycle combustion turbine with evaporative cooling equipment t

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**New Jersey Department of Environmental Protection
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	VOC (Total) <= 7.7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
17	SO2 <= 0.00164 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	SO2 <= 2.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	TSP <= 0.015 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	TSP: 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
20	TSP <= 21.4 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	TSP: 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
21	PM-10 (Total) <= 0.015 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	PM-10 (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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
22	PM-10 (Total) <= 21.4 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	PM-10 (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on each of three Department validated stack test runs (see applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
23	PM-2.5 (Total) <= 0.015 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	PM-2.5 (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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	PM-2.5 (Total) <= 21.4 lb/hr. [N.J.A.C. 7:27-22.16(a)] and. [40 CFR 52.21]	PM-2.5 (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on each of three Department validated stack test runs (see applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
25	Acrolein <= 0.009 lb/hr. Hourly emission limit based on AP-42 emission factor 5th edition volume I chapter 3 , Table 3.1-3 emissions factor, natural gas heating value of 1027 MMBtu/MMScf and maximum permitted heat input in MMBtu/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Benzene <= 0.017 lb/hr. Hourly emission limit based on AP-42 emission factor 5th edition volume I chapter 3 , Table 3.1-3 emissions factor, natural gas heating value of 1027 MMBtu/MMScf and maximum permitted heat input in MMBtu/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	Formaldehyde <= 0.99 lb/hr. Hourly emission limit based on AP-42 emission factor 5th edition volume I chapter 3 , Table 3.1-3 emissions factor, natural gas heating value of 1027 MMBtu/MMScf and maximum permitted heat input in MMBtu/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see applicable requirements in U2 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 applicable requirements in U2 OS Summary). [N.J.A.C. 7:27-22.16(o)]
28	Polycyclic organic matter <= 0.0013 lb/hr. Hourly emission limit based on AP-42 emission factor 5th edition volume I chapter 3 , Table 3.1-3 emissions factor, natural gas heating value of 1027 MMBtu/MMScf and maximum permitted heat input in MMBtu/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
29	Sulfuric Acid Mist Emissions <= 0.0005 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
30	Sulfuric Acid Mist Emissions <= 0.7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Butadiene (1,3-) <= 0.0006 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
32	Naphthalene <= 0.0018 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
33	Acetaldehyde <= 0.056 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
34	Ethylbenzene <= 0.044 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
35	NOx (Total) <= 75 ppmvd @ 15% O ₂ . [40 CFR 60.332(a)(1)]	NOx (Total): Monitored by stack emission testing once initially, based on each of three Department validated stack test runs. Test methods and procedures shall be consistent with the requirements of 40 CFR Part 60.335. Performance testing is not required for any emergency fuel as defined in 40 CFR 60.331. [40 CFR 60.335]	None.	None.
36	Sulfur Content in Fuel <= 0.8 % by weight. 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). [40 CFR 60.333(b)]	Other: Test methods and procedures shall be consistent with the requirements of 40 CFR Part 60.334(h) and 60.335. A minimum of three fuel samples shall be collected during the performance test. [40 CFR 60.335].	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	The owner or operator may, as alternative to operating the continuous monitoring system described in 40 CFR 60.334(a), install, certify, maintain operate, and quality-assure a continuous monitoring system (CEMS) consisting of NO _x and O ₂ monitors. As an alternative, a CO ₂ monitor may be used to adjust the measured NO _x concentrations. Each CEMS must be installed and certified according to PS 2 and 3 of 40 CFR Part 60 Appendix B. If the owner or operator has installed a NO _x CEMS to meet the requirements 40 CFR Part 75 and is continuing to meet the ongoing requirements of 40 CFR Part 75, the CEMS may be used to meet the requirements of this section. If CEMS in conformance with 40 CFR Part 75 is used, periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance report. [40 CFR 60.334(b)]	Monitored by continuous emission monitoring system continuously. [40 CFR 60.334]	None.	None.
38	The owner or operator may elect not to monitor nitrogen content of the fuel being fired in the turbine if the owner or operator does not claim an allowance for fuel bound nitrogen. [40 CFR 60.334(h)(2)]	None.	None.	Demonstrate compliance: Once initially. The owner or operator does not claim an allowance for fuel bound nitrogen. The allowable NO _x emission concentration included in this permit was calculated in accordance with 40 CFR 60.332(a). In calculations, NO _x emission allowance (F-value) of zero was accepted. [40 CFR 60.334(h)(2)]
39	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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	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)(1)(iii) as follows: (iii) for turbines using NOx and diluent CEMS - 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): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. Each report shall include the average steam or water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, as applicable and, (if applicable) the nitrogen content of the fuel during each excess emission. Pursuant to 40 CFR 60.334(j)5, all reports shall be postmarked by the 30th day following the end of each 6-month period. [40 CFR 60.334(j)(1)]

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Emission Unit: U2 Combined cycle combustion turbine with evaporative cooling equipment upstream of inlet air system, 1388 MMBtu/hr, Subject to NSPS A & NSPS GG

Operating Scenario: OS2 Turbine start-up/shutdown

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Start-up Period <= 150 minutes. Start-up includes the period of time for successful gas turbine unit ignition, available steam for NOx control, and compliance with emission limits. [N.J.A.C. 7:27-22.16(a)]	Other: Hour/time monitor. Each start-up.[N.J.A.C. 7:27-22.16(o)].	Start-up Period: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
2	Shutdown Period <= 120 minutes. Shutdown shall be defined as that period of time after which NOx control steam is no longer available until the cessation of fuel flow to the gas turbine. [N.J.A.C. 7:27-22.16(a)]	Other: Hour/time monitor. Each shutdown.[N.J.A.C. 7:27-22.16(o)].	Shutdown Period: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
3	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
4	CO <= 250 ppmv @ 15% O2. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously , based upon the average of emissions over one calendar day, not including periods of equipment downtime. [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [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. [N.J.A.C. 7:27-22.16(o)]
5	VOC (Total) <= 50 ppmv @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [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
6	NOx (Total) <= 0.75 lb/MW-hr. [N.J.A.C. 7:27-19.5(g)1]	Other: Monitored by a continuous emission monitoring system, based upon a calendar day between May 1 and September 30, and a 30 day rolling average between October 1 and April 30. [N.J.A.C. 7:27-19.15(a)1]. NOTE: A 30-day rolling average NOx emission rate is the arithmetic average of all hourly NOx emission data measured by the continuous emission monitoring equipment for a given day and the twenty-nine unit operating days immediately preceding that unit operating day.[40 CFR 60.4380(b)(1)].	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage at the approved frequency. [N.J.A.C. 7:27-19.15(a)1]	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. [N.J.A.C. 7:27-22.16(o)]
7	PM-10 (Total) <= 6.79 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 6.79 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 3.72 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	VOC (Total) <= 0.91 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	NOx (Total) <= 402.7 lb/hr. [N.J.A.C. 7:27-27.22(a)]	None.	None.	None.
12	CO <= 152.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	SO2 <= 2.22 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Formaldehyde <= 0.99 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Benzene <= 0.017 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Acrolein <= 0.009 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Polycyclic organic matter <= 0.0013 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Butadiene (1,3-) <= 0.0006 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Naphthalene <= 0.0018 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Acetaldehyde <= 0.056 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Ethylbenzene <= 0.044 lb/hr. based on US EPA AP-42 Emission Factor Guidance Document, Section 3.1, Table 3.1-3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U3 Emergency Diesel Fire Pump, 2.1 MMBtu/hr, 287 HP, 214 KW, Subject to MACT ZZZZ for Area Sources

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Visible emissions from Emergency Diesel Fire Pump shall be no greater than 20%, exclusive of condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Opacity <= 10 %. Emergency Diesel Fire Pump shall not be used in a manner which will cause the opacity to exceed 10%, exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Particulate Emissions <= 1.26 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	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [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.
5	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 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
6	NOx (Total) <= 0.347 tons/yr. Annual emission limit based on 100 hours/yr of operation for Testing and Maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 0.076 tons/yr. Annual emission limit based on 100 hours/yr of operation for Testing and Maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	VOC (Total) <= 0.028 tons/yr. Annual emission limit based on 100 hours/yr of operation for Testing and Maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO ₂ <= 0.023 tons/yr. Annual emission limit based on 100 hours/yr of operation for Testing and Maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	TSP <= 0.025 tons/yr. Annual emission limit based on 100 hours/yr of operation for Testing and Maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-10 (Total) <= 0.025 tons/yr. Annual emission limit based on 100 hours/yr of operation for Testing and Maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-2.5 (Total) <= 0.025 tons/yr. Annual emission limit based on 100 hours/yr of operation for Testing and Maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Maximum Gross Heat Input <= 2.1 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Emergency Diesel Fire Pump is limited to diesel fuel only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	<p>This emergency generator shall not be used:</p> <p>1. For normal 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 defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source.</p> <p>[N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>1. During the performance of normal testing and maintenance procedures, including other fire protection equipment, as recommended in writing by the fire pump or fire protection system manufacturer and/or as required in writing by a Federal or State law or regulation,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu, or</p> <p>4. To provide power to pump water for fire suppression or protection, or in case of flood, even if there is no power outage and primary source of mechanical energy has not failed. [N.J.A.C. 7:27-22.16(a)] and [N.J.A.C. 7:27-19.1]</p>	<p>Monitored by hour/time monitor continuously</p> <p>. In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour). Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and. [N.J.A.C. 7:27-19.11]</p>	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	<p>This emergency generator shall not be used:</p> <p>1. For normal 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 defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [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 upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
19	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 may 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, or as an alternative, Ref. #26 can be used to demonstrate compliance with this requirement. [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.
20	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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	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.
22	At all times the owner or operator 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.
23	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.
24	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: Monitored according to the manufacturer's emission-related operation and maintenance instructions; or the maintenance plan developed by the owner or operator 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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	The owner or operator may operate an emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. [40 CFR 63.6640(f)(2i)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 63.6655(f)(2)]	None.
26	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.

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

Emission Unit: U3 Emergency Diesel Fire Pump, 2.1 MMBtu/hr, 287 HP, 214 KW, Subject to MACT ZZZZ for Area Sources

Operating Scenario: OS1 100 hours/year for Testing and Maintenance

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 6.94 lb/hr. Hourly emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations once initially. [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. [N.J.A.C. 7:27-22.16(o)]	None.
2	CO <= 1.51 lb/hr. Hourly emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations once initially. [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. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 0.56 lb/hr. Hourly emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
4	TSP <= 0.5 lb/hr. Hourly emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. Refer to Ref #1 and #2. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Refer to Ref #1 and #2. [N.J.A.C. 7:27-22.16(o)]	None.
5	PM-10 (Total) <= 0.5 lb/hr. Hourly emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. Refer to Ref #1 and #2. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Refer to Ref #1 and #2. [N.J.A.C. 7:27-22.16(o)]	None.
6	PM-2.5 (Total) <= 0.5 lb/hr. Hourly emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
7	Maximum emission rate of SO2 are below reporting threshold of 0.05 lb/hr Appendix Table A in N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U4 Three Black Start Emergency Generators (EG-1, EG-2 & EG-3) - 30.99 MMBtu/hr, 4680 BHP, 3.25 MW Each, Subject to NSPS A & NSPS III

Operating Scenario: OS Summary

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]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-22.16(a)] and. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records once per bulk fuel shipment. [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.
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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p>	<p>Monitored by fuel flow/firing rate instrument continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Cubic feet per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in cubic feet per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (cubic feet per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <p>i. The reason for its operation;</p> <p>ii. The date(s) of operation and the start up and shut down time;</p> <p>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</p> <p>iv. The name of the operator; and</p> <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and. [N.J.A.C. 7:27-19.11]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>This emergency generator shall not be used:</p> <p>1. For normal 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 defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

**New Jersey Department of Environmental Protection
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The Emergency Generator may be operated at other locations (within the State of New Jersey) only in the event of an emergency, as defined at N.J.A.C. 7:27-19.1. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. 1. For each time the emergency generator is operated at a location other than the facility for which it is originally permitted in the event of an emergency, the Permittee of the emergency generator shall record the following: i) Document the location (name of facility with address) where the emergency generator is operated; ii) Document the emergency that occurred and describe whether the emergency was due to internal or external loss of primary source of energy at the location; iii) If emergency is due to internal loss at the location, document the damages to the primary source of energy and the amount of time needed for repairs; iv) Document the date(s) of operation and the start up and shut down time on each date; v) Document the total operating time at the location based on the generator's hour meter and the total amount of fuel and fuel type used for the duration of the emergency; vi) The name and contact information of the operator of the emergency generator at the location.</p> <p>2. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The Permittee of the emergency generator shall have the above records on site within 30 days of the occurrence of the emergency event, maintain the record for a period of no less than 5 years after the record was made, and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)]</p>	Submit notification: Upon occurrence of event the Permittee of the emergency generator must submit the Recordkeeping Requirements to the Regional Enforcement Office within 30 days of the occurrence of the emergency event. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	CO <= 2.19 tons/yr. Annual emission limit. Emissions based on 100 hours per year of testing, maintenance and black start events per PJM restoration project, maximum heat input rate of the emergency generator in MMBtu/hr (HHV) during diesel fuel combustion and manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations each month during operation, 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 or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	NOx (Total) <= 6.45 tons/yr. Annual emission limit. Emissions based on 100 hours per year of testing, maintenance and black start events per PJM restoration project, maximum heat input rate of the emergency generator in MMBtu/hr (HHV) during diesel fuel combustion and manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis) . [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 each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
9	VOC (Total) <= 0.29 tons/yr. Annual emission limit. Emissions based on 100 hours per year of testing, maintenance and black start events per PJM restoration project, maximum heat input rate of the emergency generator in MMBtu/hr (HHV) during diesel fuel combustion and manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
10	SO2: <= Below Reporting Threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.18 tons/yr. Annual emission limit. Emissions based on 100 hours per year of testing, maintenance and black start events per PJM restoration project, maximum heat input rate of the emergency generator in MMBtu/hr (HHV) during diesel fuel combustion and manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	PM-10 (Total) \leq 0.18 tons/yr. Annual emission limit. Emissions based on 100 hours per year of testing, maintenance and black start events per PJM restoration project, maximum heat input rate of the emergency generator in MMBtu/hr (HHV) during diesel fuel combustion and manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
13	Benzene \leq 0.0036 tons/yr Emissions based on 100 hours/year, maximum heat input rate of the emergency generator during fuel oil combustion and AP42 Emission factors 5th edition volume I chapter 3 , Table 3.4.3 . [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Benzene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
14	PM-2.5 (Total) \leq 0.18 tons/yr. Annual emission limit. Emissions based on 100 hours per year of testing, maintenance and black start events per PJM restoration project, maximum heat input rate of the emergency generator in MMBtu/hr (HHV) during diesel fuel combustion and manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
15	Routine testing and maintenance of any black start generator shall not occur during startup or shutdown of a turbine except during the annual black start engine Readiness Testing. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Simultaneous testing of emergency generators and/or fire pumps is prohibited. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	<p>Hours of Operation <= 100 hr/yr /black start emergency generator.</p> <p>The annual hours of operation of the black start generators for routine testing, maintenance, black start readiness testing and any operation by these generators during the PJM restoration project grid emergency events shall not exceed 100 hr/yr per black start emergency generator.</p> <p>1. ROUTINE TESTING AND MAINTENANCE: The duration of a routine test will be restricted to 60 minutes. Routine testing and maintenance shall not occur during startup or shutdown of a turbine. Simultaneous testing of black start emergency generators and/or fire pumps is prohibited. No testing will occur on designated "Ozone Action Days" as required by N.J.A.C. 7:27-19.2(d)2</p> <p>2. BLACK START READINESS TESTING: Black start generator readiness testing employing U4 equipment is authorized. A readiness test is permitted at the facility for each black start generator once per year. If the readiness test fails, re-tests are permitted. Each readiness test or re-test shall not exceed two hours duration. During each readiness test, the black start generators (U4) are permitted to operate during the startup of the combustion turbine up to two hours per readiness test. No testing will occur on designated "Ozone Action Days" as required by N.J.A.C. 7:27-19.2(d)2. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Hours of Operation: Monitored by hour/time monitor continuously, based on one calendar year.</p> <p>The permittee shall install and operate a totalizing, non-resettable hour meter to monitor the total hours of operation of each generator during each year. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall maintain on site and record in a logbook or computer data system, the following information:</p> <ol style="list-style-type: none"> 1. Once per month, the total operating time from the hour meter of each generator. 2. For each time a generator is specifically operated for routine testing or maintenance and for each time a generator is used for the annual black start readiness test. <ol style="list-style-type: none"> i. The reason for its operation. Readiness re-tests should be specifically designated as such in the logbook or computer data system ii. the date(s) for its operation and the startup and shutdown time iii. The total operating time for based on the generator's hour meter; and, iv. The name of the operator <p>The owner or operator of the generators shall maintain the above records for a period no less than five years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-19.11(a)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	The Black start Generator cannot be used for load shaving, peaking power production, or generation in an agreement with a utility energy assistance program. [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 shall record in either a permanent bound log book, or in readily accessible computer memories, each occurrence of start-up: date, duration of emergency generator operation and reason and the name of a person making the entry. All records shall be maintained on-site for a minimum of 5 years. [N.J.A.C. 7:27-22.16(o)]	None.
19	All requests, reports, applications, submittals, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule, submit reports to EPA Region II as required by 40 CFR 60. Send reports to: Director, Air and Waste Management Division, US Environmental Protection Agency, Region II, 290 Broadway, New York, NY 10007-1866. [40 CFR 60.4(a)]
20	Submit a copy of all requests, reports, applications, submittals, and other communication required by 40 CFR to the Central Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: At no specified schedule to the Central Regional Enforcement Office as required by 40 CFR 60. Submit to: Central Regional Enforcement Office New Jersey Department of Environmental Protection 401 East State Street, PO Box 420 Trenton, NJ 08625-0420. [40 CFR 60.4(b)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	<p>Notify the Administrator of any physical or operational change which may increase the emission rate of any air pollutant at least 60 days before the change.</p> <p>A 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 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productivity capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(1)]</p>	None.	None.	Comply with the requirement: Prior to occurrence of event , submit the notification to EPA Region II and the Central Regional Enforcement Office per 40 CFR 60.7. [40 CFR 60.7(a)(4)]
22	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification of the anticipated date of initial startup of an affected facility postmarked not more than 60 days nor less than 30 days prior to such date.. [40 CFR 60.7(a)(2)]	None.	None.	None.
23	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.[40 CFR 60.7(a)(3)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	<p>Notify the Administrator of any physical or operational change which may increase the emission rate of any air pollutant at least 60 days before the change.</p> <p>A 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 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]</p>	None.	None.	Comply with the requirement: Prior to occurrence of event, submit the notification to EPA Region II and the Central Regional Enforcement Office per 40 CFR 60.7. [40 CFR 60.7(a)(4)]
25	<p>Maintain records of the occurrence and duration of equipment startups, shutdowns, or malfunction.</p> <p>Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]</p>	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event of the parameters specified in 40 CFR 60.7(b). [40 CFR 60.7(b)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	<p>Submit excess emissions and monitoring systems performance report and/or a summary report to the EPA Region II Administrator and the Central Regional Enforcement Office.</p> <p>Each owner or operator required to install a continuous monitoring system (CMS) or 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 40 CFR 60.7(d) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; 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.</p> <p>All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). [40 CFR 60.7(c)]</p>	None.	<p>Other: Written reports of excess emissions shall include the following information:</p> <p>(1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.</p> <p>(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.</p> <p>(3) The date and time identifying each period during which the continuous monitoring system was inoperative, except for zero and span checks and nature of the system repairs or adjustments.</p> <p>(4) When excess emissions have occurred or the continuous monitoring system(s) have not been operative, repaired, or adjusted, such information shall be stated in the report.[40 CFR 60.7(c)].</p>	<p>Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every six months on January 1 and July 1 of each year but started no sooner than three months after the effective date of the approved permit. The first report shall include data for the three months preceding the reporting half-year, if applicable..</p> <p>The report shall be submitted to the EPA Region II Administrator, to the NJDEP Central Regional Enforcement Office; and be in a format as specified at 40 CFR Part 60.7(c) and. [40 CFR 60.7(d)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	Any owner or operator subject to the provisions of this part shall maintain a file of 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; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. [40 CFR 60.7(f)]	None.	Other: See Applicable Requirement.[40 CFR 60.7(f)].	None.
28	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.
29	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.

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Emission Unit: U4 Three Black Start Emergency Generators (EG-1, EG-2 & EG-3) - 30.99 MMBtu/hr, 4680 BHP, 3.25 MW Each, Subject to NSPS A & NSPS III

Operating Scenario: OS1 Black Start EG-1 - 100 hours/per year for Testing, Maintenance and Black Start Events per PJM Restoration Project, OS2 Black Start EG-2 - 100 hours/per year for Testing, Maintenance and Black Start Events per PJM Restoration Project, OS3 Black Start EG-3 - 100 hours/per year for Testing, Maintenance and Black Start Events per PJM Restoration Project

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 9.1 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	The Permittee shall, once per month, record the total operating time from the generator's hour meter. [N.J.A.C. 7:27-19.11]	Monitored by hour/time monitor continuously . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The Permittee shall maintain on site a record of the total operating time from the generator's hour meter. Once per month. [N.J.A.C. 7:27-19.11]	None.
3	Maximum Gross Heat Input <= 30.99 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Fuel flow monitored during engine operation.[N.J.A.C. 7:27-22.16(o)].	Maximum Gross Heat Input: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
4	CO <= 14.62 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations each month during operation. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	NOx (Total) <= 42.93 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations each month during operation. [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 each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	VOC (Total) <= 1.92 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	SO2: <= Below Reporting Threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 1.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations each month during operation. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

U4 Three Black Start Emergency Generators (EG-1, EG-2 & EG-3) - 30.99 M

OS1, OS2, OS3

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	PM-10 (Total) <= 1.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations each month during operation. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
10	PM-2.5 (Total) <= 1.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations each month during operation. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
11	Benzene <= 0.024 lb/hr Emissions based on 100 hours/year, maximum heat input rate of the emergency generator during fuel oil combustion and AP42 Emission factors 5th edition volume I chapter 3 , Table 3.4.3 . [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Benzene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
12	The owner or operator of a 2011 model year and later emergency generator with the maximum engine power > 3,000 HP (> 2,237 kW) and a displacement of < 10 liters per cylinder must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and same maximum engine power as follows: NMHC + NOx <= 6.4 g/kW-hr, CO <= 3.5 g/kW-hr, PM <= 0.20 g/kW-hr. [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.
13	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. [40 CFR 60.4206].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted (NSPS Subpart IIII). [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.
15	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable (NSPS Subpart IIII). [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4204(b) or 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b) or 40 CFR 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications (NSPS Subpart IIII). [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation for the life of the equipment from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].	None.
17	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year (NSPS Subpart IIII). [40 CFR 60.4211(f)(2)(i)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
18	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63 (MACT ZZZZ). [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): North Jersey Energy Assoc Sayreville Facility

Facility ID (AIMS): 18072

Street 601 JERNEE MILL RD
Address: 601 JERNEE MILL RD
SAYREVILLE, NJ 08872

Mailing 601 JERNEE MILL RD
Address: 601 JERNEE MILL RD
SAYREVILLE, NJ 08872

County: Middlesex
Location Longitude @ 74 20 43 DMS
Description: Latitude @ 40 26 21 DMS

State Plane Coordinates:	
X-Coordinate:	535,251
Y-Coordinate:	584,892
Units:	New Jersey State Plane 8
Datum:	Unknown
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: Sayreville Power Generation LP

Org. Type: LP

Name: Mark Miranda

NJ EIN: 00650471798

Title: EHS Manager

Phone: (914) 258-4990 x

Mailing Address: 601 Jernee Mill Rd

Fax: () - x

Sayreville, NJ 08872

Other: (914) 258-4990 x

Type: Mobile

Email: Mark.Miranda@luminant.com

Contact Type: BOP - Operating Permits

Organization: Sayreville Power Generation LP

Org. Type: LP

Name: Mark Miranda

NJ EIN: 00650471798

Title: EHS Manager

Phone: (914) 258-4990 x

Mailing Address: 601 Jernee Mill Rd

Fax: () - x

Sayreville, NJ 08872

Other: (914) 258-4990 x

Type: Mobile

Email: Mark.Miranda@luminant.com

Contact Type: Emission Statements

Organization: Sayreville Power Generation LP

Org. Type: LP

Name: Mark Miranda

NJ EIN: 00650471798

Title: EHS Manager

Phone: (914) 258-4990 x

Mailing Address: 601 Jernee Mill Rd

Fax: () - x

Sayreville, NJ 08872

Other: (914) 258-4990 x

Type: Mobile

Email: Mark.Miranda@luminant.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Fees/Billing Contact

Organization: Sayreville Power Generation LP

Org. Type: LP

Name: Mark Miranda

NJ EIN: 00650471798

Title: EHS Manager

Phone: (914) 258-4990 x

Mailing Address: 601 Jernee Mill Rd
Sayreville, NJ 08872

Fax: () - x

Other: (914) 258-4990 x

Type: Mobile

Email: Mark.Miranda@luminant.com

Contact Type: General Contact

Organization: Sayreville Power Generation LP

Org. Type: LP

Name: Mark Miranda

NJ EIN: 00650471798

Title: EHS Manager

Phone: (914) 258-4990 x

Mailing Address: 601 Jernee Mill Rd
Sayreville, NJ 08872

Fax: () - x

Other: (914) 258-4990 x

Type: Mobile

Email: Mark.Miranda@luminant.com

Contact Type: On-Site Manager

Organization: Sayreville Power Generation LP

Org. Type: LP

Name: Cory Finn

NJ EIN: 00650471798

Title: Plant Manager

Phone: (217) 675-7345 x

Mailing Address: 601 Jernee Mill Rd
Sayreville, NJ 08872

Fax: (732) 651-1167 x

Other: (217) 371-0131 x

Type: Home

Email: Cory.Finn@VistraCorp.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Operator

Organization: Sayreville Power Generation LP

Org. Type: LP

Name: Cory Finn

NJ EIN: 00650471798

Title: Plant Manager

Phone: (217) 675-7345 x

Mailing Address: 601 Jernee Mill Rd

Fax: (732) 651-1167 x

Sayreville, NJ 08872

Other: (217) 371-0131 x

Type: Home

Email: Cory.Finn@VistraCorp.com

Contact Type: Owner (Current Primary)

Organization: Sayreville Power Generation LP

Org. Type: LP

Name: Cory Finn

NJ EIN: 00650471798

Title: Plant Manager

Phone: (217) 675-7345 x

Mailing Address: 601 Jernee Mill Rd

Fax: (732) 651-1167 x

Sayreville, NJ 08872

Other: (217) 371-0131 x

Type: Home

Email: Cory.Finn@VistraCorp.com

Contact Type: Responsible Official

Organization: Sayreville Power Generation LP

Org. Type: LP

Name: Cory Finn

NJ EIN: 00650471798

Title: Plant Manager

Phone: (217) 675-7345 x

Mailing Address: 601 Jernee Mill Rd

Fax: (732) 651-1167 x

Sayreville, NJ 08872

Other: (217) 371-0131 x

Type: Home

Email: Cory.Finn@VistraCorp.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Title V Compliance Certification Contact

Organization: Sayreville Power Generation LP

Org. Type: LP

Name: Cory Finn

NJ EIN: 00650471798

Title: Plant Manager

Phone: (217) 675-7345 x

Mailing 601 Jernee Mill Rd

Fax: (732) 651-1167 x

Address: Sayreville, NJ 08872

Other: (217) 371-0131 x

Type: Home

Email: Cory.Finn@VistraCorp.com

SAYREVILLE POWER GENERATION LP (18072)
BOP190002

Date: 2/18/2025

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	Water Treatment Chemicals (< 50 lbs/hr throughput)	Other Equipment	Boiler feed pump house west side of plant									
IS2	Diesel Storage Tank Emissions (< 10,000 gal liq and vp < 0.02 psia)	Storage Vessel	Pump House north and generators south side of plant	0.003				0.010	0.010			
IS3	Vapor Extractors (electric motor fans); Seal Oil Vent; Lube Oil Vent (< 50 lbs/hr throughput)	Other Equipment	Mechanical Package turbine hall	1.800								
IS4	Parts Washer (< 6 sq ft)	Cleaning Machine (Open Top: Cold)	I&C/Maintenance shop west of turbine hall	0.300								
IS5	Wastewater Treatment including oil/water separator, open sumps in bldgs (< 100 ppbw TXS and < 3,500 ppbw VOC)	Other Equipment	DEMIN Water Bldg. north side of plant	0.010								
IS8	Storage/Use of chemicals (< 10,000 gal liq and vp < 0.02 psia)	Storage Vessel	DEMIN Water Bldg. north side of plant					0.010	0.010			

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)
IS9	Storage/Use of VOC (< 2,000 gal liq)	Storage Vessel	Pump House North, Boiler Feed Pump House West, DEMIN Bldg. North	0.010								
IS10	HRS Chemical Cleaning (< 50 lbs/hr throughput)	Other Equipment	Turbine Hall north side of turbine hall					0.010				
Total				2.123	0.000	0.000	0.000	0.030	0.020	0.000	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 with evaporative cooling equipment upstream of inlet air system	Combustion Turbine	093460	8/13/1991	No	3/4/2014	
E2	CT-2	Combustion turbine with evaporative cooling equipment upstream of inlet air system	Combustion Turbine	093460	8/13/1991	No	3/4/2014	
E3	FP-1	Emergency Fire Pump Engine	Stationary Reciprocating Engine	123799		No		
E4	BS EG-1	Black Start Generator-1	Emergency Generator	BOP140005	12/31/2014	No		
E5	BS EG-2	Black Start Generator-2	Emergency Generator	BOP140005	12/31/2014	No		
E6	BS EG-3	Black Start Generator-3	Emergency Generator	BOP140005	12/31/2014	No		

18072 SAYREVILLE POWER GENERATION LP BOP190002 E1 (Combustion Turbine)
Print Date: 2/18/2025

Make:	<input type="text" value="Westinghouse"/>		
Manufacturer:	<input type="text" value="Westinghouse"/>		
Model:	<input type="text" value="W501D5"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="1,388.00"/>		
Type of Turbine:	<input type="text" value="Industrial"/>		
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" value="1.40"/>	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 type="checkbox"/>	Description:	<input type="text"/>
Is the turbine Equipped with a Duct Burner?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" 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" value="IOP issued with equipment Details: 1252 MMBtu/hr while compliance plan with 1400 MMBtu/hr. Factory submitted mfg. technical info with 1388 MMBtu/hr on 2/15/2012. Modified combustion turbine with evaporative cooler in March, 2012."/>		

18072 SAYREVILLE POWER GENERATION LP BOP190002 E2 (Combustion Turbine)
Print Date: 2/18/2025

Make:	<input type="text" value="Westinghouse"/>		
Manufacturer:	<input type="text" value="Westinghouse"/>		
Model:	<input type="text" value="W501D5"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="1,388.00"/>		
Type of Turbine:	<input type="text" value="Industrial"/>		
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" value="1.40"/>	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 type="checkbox"/>	Description:	<input type="text"/>
Is the turbine Equipped with a Duct Burner?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" 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" value="IOP issued with equipment Details: 1252 MMBtu/hr while compliance plan with 1400 MMBtu/hr. Factory submitted mfg. technical info with 1388 MMBtu/hr on 2/15/2012. Modified combustion turbine with evaporative cooler in March, 2012."/>		

18072 SAYREVILLE POWER GENERATION LP BOP190002 E4 (Emergency Generator)
Print Date: 2/18/2025

Make:	<input type="text" value="MTU Detroit Deisel"/>		
Manufacturer:	<input type="text" value="Kohler"/>		
Model:	<input type="text" value="3250REOZD"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="30.99"/>		
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" 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 checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text" value="EPA Tier 2 Certificate # CMDDL95.4XTR-006-R01 provided with manuf. data specification sheet."/>		

18072 SAYREVILLE POWER GENERATION LP BOP190002 E5 (Emergency Generator)
Print Date: 2/18/2025

Make:	<input type="text" value="MTU Detroit Deisel"/>		
Manufacturer:	<input type="text" value="Kohler"/>		
Model:	<input type="text" value="3250REOZD"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="30.99"/>		
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" 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 checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text" value="EPA Tier 2 Certificate # CMDDL95.4XTR-006-R01 provided with manuf. data specification sheet."/>		

18072 SAYREVILLE POWER GENERATION LP BOP190002 E6 (Emergency Generator)
Print Date: 2/18/2025

Make:	<input type="text" value="MTU Detroit Deisel"/>		
Manufacturer:	<input type="text" value="Kohler"/>		
Model:	<input type="text" value="3250REOZD"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="30.99"/>		
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" 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 checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text" value="EPA Tier 2 Certificate # CMDDL95.4XTR-006-R01 provided with manuf. data specification sheet."/>		

SAYREVILLE POWER GENERATION LP (18072)
BOP190002

Date: 2/18/2025

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	Main Stack 1		Round	300	190	100	210.0	200.0	294.0	680,000.0	500,000.0	850,000.0	Up	
PT2	Main Stack 2		Round	300	190	100	210.0	200.0	294.0	680,000.0	500,000.0	850,000.0	Up	
PT3	Dsl Fire Pum		Round	10	8	140	986.0	900.0	1,000.0	1,700.0	500.0	2,000.0	Horizontal	
PT4	EG-1	Emergency Generator 1	Round	10	18	75	977.0	977.0	977.0	24,791.0	24,791.0	24,791.0	Up	
PT5	EG-2	Emergency Generator 2	Round	10	18	68	977.0	977.0	977.0	24,791.0	24,791.0	24,791.0	Up	
PT6	EG-3	Emergency Generator 3	Round	10	18	51	977.0	977.0	977.0	24,791.0	24,791.0	24,791.0	Up	

SAYREVILLE POWER GENERATION LP (18072)
BOP190002

Date: 2/18/2025

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

BP1

Batch Process Operating Scenario Run Time (hours)								Min. Calc. Time:		Max. Calc. Time:		Min. User Time:		Max. User Time:	
Step NJID	Facility's Designation	Step Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Step Run Time Hours		VOC Range	Flow (acfm)	Temp. (deg F)			
								Min.	Max.		Min.	Max.	Min.	Max.	

U 1 CT-1 Combined cycle combustion turbine with evaporative cooling equipment upstream of inlet air system, 1388 MMBtu/hr, Subject to NSPS A & NSPS GG

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	Natural Gas Combustion, Normal Operation	Normal - Steady State	E1		PT1	2-02-002-01			8,760.0				
OS2	CT-1	Turbine start-up/shutdown	Startup	E1		PT1	2-02-002-01			8,760.0				

U 2 CT-2 Combined cycle combustion turbine with evaporative cooling equipment upstream of inlet air system, 1388 MMBtu/hr, Subject to NSPS A & NSPS GG

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-2	Natural Gas Combustion, Normal Operation	Normal - Steady State	E2		PT2	2-02-002-01		8,760.0					

SAYREVILLE POWER GENERATION LP (18072)
BOP190002

Date: 2/18/2025

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

U 2 CT-2 Combined cycle combustion turbine with evaporative cooling equipment upstream of inlet air system, 1388 MMBtu/hr, Subject to NSPS A & NSPS GG

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.
OS2	CT-2	Turbine start-up/shutdown	Startup	E2		PT2	2-02-002-01		8,760.0					

U 3 Emerg DFPump Emergency Diesel Fire Pump, 2.1 MMBtu/hr, 287 HP, 214 KW, Subject to MACT ZZZZ for Area Sources

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	EDFirePump	100 hours/year for Testing and Maintenance	Normal - Steady State	E3		PT3	2-01-001-02							

SAYREVILLE POWER GENERATION LP (18072)
BOP190002

Date: 2/18/2025

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

U 4 BS EG-1,2,3 Three Black Start Emergency Generators (EG-1, EG-2 & EG-3) - 30.99 MMBtu/hr, 4680 BHP, 3.25 MW Each, Subject to NSPS A & NSPS IIII

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	BS EG-1	Black Start EG-1 - 100 hours/per year for Testing, Maintenance and Black Start Events per PJM Restoration Project	Normal - Steady State	E4		PT4	2-02-001-07	10.0	100.0		24,791.0	24,791.0	977.0	977.0
OS2	BS EG-2	Black Start EG-2 - 100 hours/per year for Testing, Maintenance and Black Start Events per PJM Restoration Project	Normal - Steady State	E5		PT5	2-02-001-07	10.0	100.0		24,791.0	24,791.0	977.0	977.0
OS3	BS EG-3	Black Start EG-3 - 100 hours/per year for Testing, Maintenance and Black Start Events per PJM Restoration Project	Normal - Steady State	E6		PT6	2-02-001-07	10.0	100.0		24,791.0	24,791.0	977.0	977.0

Date: 2/18/2025

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

Group NJID: GR1 CT-1 & CT-2

Members:

Type	ID	OS	Step
U	U 1	OS0 Summary	
U	U 2	OS0 Summary	

Formal Reason(s) for Group/Cap:

☒ Other

Other (explain): To establish emission and fuel use caps per PCP

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

Operating Circumstances:

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

Group NJID: GR2 CT-1 & CT-2

Members:

Type	ID	OS	Step
U	U 1	OS0 Summary	
U	U 2	OS0 Summary	

Formal Reason(s) for Group/Cap:

☒ Other

Other (explain): Specify requirements for Emission Units subject to the CO2 Budget Trading Program
(N.J.A.C. 7-27C)

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

Operating Circumstances:

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

Group NJID: GR3 CT-1 & CT-2

Members:

Type	ID	OS	Step
U	U 1	OS0 Summary	
U	U 2	OS0 Summary	

Formal Reason(s) for Group/Cap:

☒ Other

Other (explain): PACT Rule

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, Energy and Materials Sustainability

Division of Air Quality and Radiation Protection

Bureau of Stationary Sources

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

TAHESHA L. WAY
Lt. Governor

SHAWN M. LATOURETTE
COMMISSIONER

PHASE II ACID RAIN PERMIT

Issued to: Sayreville Power Generation LP
601 Jernee Mill Road
Sayreville, New Jersey 08872

Owned by: Sayreville Power Generation LP
601 Jernee Mill Road
Sayreville, New Jersey 08872

Operated by: Sayreville Power Generation LP
601 Jernee Mill Road
Sayreville, New Jersey 08872

ORIS Code: 010308

Effective: Coincide with the Operating Permit Date, this Acid Rain Permit is issued under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2) and Titles IV and 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:

Shafi Uddin Ahmed

Shafi Ahmed
Bureau of Stationary Sources

ACID RAIN PERMIT CONTENTS

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1) Statement of Basis

In accordance with N.J.S.A. 26:2C-9.2 and Titles IV and V of the Clean Air Act, the Department issues this permit pursuant to N.J.A.C. 7:27 et seq.

2) Unit Specific Requirements

This section specifies the sulfur dioxide allowance allocation for each affected unit at this facility.

Calendar Year		2002	2003	2004	2005	2006
Unit # 1001	SO2 allowances under Tables 2, 3, or 4 of 40 CFR 73	0*	0*	0*	0*	0*

Calendar Year		2002	2003	2004	2005	2006
Unit # 1002	SO2 allowances under Tables 2, 3, or 4 of 40 CFR 73	0*	0*	0*	0*	0*

* The number of allowances allocated to Phase II affected units by USEPA may change in future revisions to 40 CFR 73 Tables 2, 3, and 4. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by USEPA. Neither of the aforementioned conditions necessitate a revision to the unit SO2 allowance allocations identified in this permit (see 40 CFR 72.84).

3) Comments, Notes, And Justifications Regarding Permit Decisions

None.

4) Phase II Permit Application

The owners and operators shall comply with all of the standard requirements and special provisions set forth on the attached Phase II Permit Application for each affected unit.

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 AAAAA.

(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 AAAAA.
- (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 AAAAA.
 - (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 BBBBBB 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 BBBBBB.
- (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 BBBBBB, 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 BBBBBB.
 - (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 BBBB.
 - (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.