



State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

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

Trenton, NJ 08625-0420

PHILIP D. MURPHY

Governor

SHEILA Y. OLIVER

Lt. Governor

SHAWN M. LATOURETTE

COMMISSIONER

Air Pollution Control Operating Permit Renewal

Permit Activity Number: BOP190002

Program Interest Number: 07167

Mailing Address	Plant Location
JONATHAN F. HOFF SR VICE PRESIDENT - MGT SERVICES PB NUTCLIF MASTER LLC 340 KINGSLAND STREET NUTLEY, NJ 07110	PB NUTCLIF MASTER, LLC 340 Kingsland St Nutley Essex County

Initial Operating Permit Approval Date: 8/10/2005

Operating Permit Approval Date: DRAFT

Operating Permit Expiration Date: T B D

AUTHORITY AND APPLICABILITY

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

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

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

PERMIT SHIELD

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

ACCESSING PERMITS

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

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

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

ADMINISTRATIVE HEARING REQUEST

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

If you have any questions regarding this permit approval, please call Nipul Patel at (609) 777-2858.

Approved by:

Shafi Ahmed

Enclosure

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

Facility Name: PB NUTCLIF MASTER, LLC
Program Interest Number: 07167
Permit Activity Number: BOP190002

TABLE OF CONTENTS

<u>Section A</u>	POLLUTANT EMISSIONS SUMMARY
<u>Section B</u>	GENERAL PROVISIONS AND AUTHORITIES
<u>Section C</u>	STATE-ONLY APPLICABLE REQUIREMENTS
<u>Section D</u>	FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES
	<ul style="list-style-type: none">• FACILITY SPECIFIC REQUIREMENTS – PAGE INDEX• REASON FOR APPLICATION• FACILITY SPECIFIC REQUIREMENTS (COMPLIANCE PLAN)• FACILITY PROFILE (ADMINISTRATIVE INFORMATION)• NON-SOURCE FUGITIVE EMISSIONS• INSIGNIFICANT SOURCE EMISSIONS• EQUIPMENT INVENTORY• EQUIPMENT DETAILS• EMISSION POINT INVENTORY• EMISSION UNIT / BATCH PROCESS INVENTORY

Section A

Facility Name: PB NUTCLIF MASTER, LLC
Program Interest Number: 07167
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} ² (total)	Pb	HAPs* (total)	CO ₂ e ³
Emission Units Summary	35.92	181.79	164.72	7.15	34.54	34.54	34.54	NA	1.39	
Batch Process Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Group Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Emissions	35.92	181.79	164.72	7.15	34.54	34.54	34.54	NA	1.39	204,146

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

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} ² (total)	Pb	HAPs (total)
Insignificant Source Operations	0.69	1.13	0.30	0.07	12.9	12.9	NA	NA	NA
Non-Source Fugitive Emissions ⁴	2.0	1.0	1.0	1.0	1.0	11.0	NA	NA	NA

VOC: Volatile Organic Compounds TSP: Total Suspended Particulates PM_{2.5}: Particulates under 2.5 microns
 NO_x: Nitrogen Oxides Other: Any other air contaminant Pb: Lead
 CO: Carbon Monoxide regulated under the Federal CAA HAPs: Hazardous Air Pollutants
 SO₂: Sulfur Dioxide PM₁₀: Particulates under 10 microns CO₂e: Carbon Dioxide equivalent
 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).

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

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

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

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

³ Total CO₂e emissions for the facility that includes all Significant Source Operations (emission units, batch process, group) and Insignificant Source Operations.

⁴ Non-Source Fugitive Emissions are defined at N.J.A.C. 7:27-22.1 and are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

Section A

Facility Name: PB NUTCLIF MASTER, LLC
Program Interest Number: 07167
Permit Activity Number: BOP190002

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
POM	0.0184
Formaldehyde	1.14
Dimethylbenz(a)anthracene (7,12-)	0.000033
1,3 Butadiene	0.0033
Acetaldehyde	0.0433
Acrolein	0.007
Naphthalene	0.0113
Propylene Oxide	0.0314
Arsenic	0.0039
Beryllium	0.0012
Cadmium	0.0043
Cobalt	0.00018
Manganese	0.143
Nickel	0.005

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

Other Air Contaminant	TPY
NA	NA

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

Section B

Facility Name: PB NUTCLIF MASTER, LLC

Program Interest Number: 07167

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

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

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

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

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

Section C

Facility Name: PB NUTCLIF MASTER, LLC

Program Interest Number: 07167

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
D	FC	---	9

Section D

Facility Name: PB NUTCLIF MASTER, LLC

Program Interest Number: 07167

Permit Activity Number: BOP190002

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

Subject Item and Name

Page Number

Facility (FC):

FC

1

Insignificant Sources (IS):

IS NJID	IS Description	
IS2	Cooling towers <50 lb/hr dry throughput	7
IS4	Tanks	9
IS5	Steam Venting <50 lb/hr	10
IS11	Five USTs #2 Oil Storage Tanks >10,000 gallons	11
IS14	Natural Gas Fired Space Heat Boiler	13
IS15	Two Diesel Fired Emergency Generators <1 MMBTU/hr	14

Emission Units (U):

U NJID	U Designation	U Description	
U1	Cogen #1 #3	COGENERATION PLANT, 74 MM BTU/HR GAS TURBINE #1 & #3, SUBJECT TO NSPS SUBPART GG	15
U310	3 EGs & 1 FP	THREE (3) DIESEL FIRED EMERGENCY GENERATORS and ONE DIESEL FIRE PUMP, SUBJECT TO AREA MACT ZZZZ	59
U311	B77 Boiler	HEAT BOILER FOR B-77, 2.22 MMBtu/hr	72
U313	B39-Boilers	B39-TWO BOILERS FIRING NATURAL GAS OR NO. 2 FUEL OIL, SUBJECT TO AREA MACT JJJJJ	74
U314	BHH#4	B39-BOILER FIRING NATURAL GAS OR ULSD, SUBJECT TO NSPS SUBPART Dc	98

PB NUTCLIF MASTER, LLC (07167)
BOP190002

Date: 7/26/2022

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 190001

Description This application is for the Title V Operating Permit Five Year Renewal Application for PB
of Modifications: Nutclif Master, LLC.

Please note that PB Nutclif Master, LLC does not have any emission units which are subject to CAM requirements and thus a CAM Plan is not required.

Remove the following emergency generators:

E1000 – B1 Emergency Generator
E1014 – B102 IN Emergency Generator
E9011 – B102 OUT Emergency Generator

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: FC

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

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Compliance Certification: The permittee shall submit an annual Compliance Certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f). [N.J.A.C. 7:27-22]	None.	None.	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.

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

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

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

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

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

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

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

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

BOP190002

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

Subject Item: IS2 Cooling towers <50 lb/hr dry throughput

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr. Maximum allowable particulate emission rate based on 0.02 grains per scf. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity <= 20 %. No Person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney into the outdoor air the shade or appearance of which is greater than 20 percent opacity, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 6.2(d)]	None.	None.	None.
3	The combined weight of all raw materials used in each equipment item shall be less than 50 lb per hour. In determining the weight of the raw materials used, the weight of air, water, containers, paper, metal or plastic shall be excluded. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Cooling tower circulation water flow rate <= 56,000 gallons per minute (gpm) combined maximum flow rate for these 2 existing cooling towers. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Total Dissolved Solids (TDS) concentration in the cooling tower circulating water <= 4,150 mg/liter. The conductivity of the circulating cooling water for B-80 and B-81 shall be maintained below 8,925 micromho/cm. [N.J.A.C. 7:27-22.16(a)]	Other: The TDS of the two large cooling towers, B-80 and B-81, is controlled as a function of solution conductivity of the circulating cooling water. 8,925 micromho/cm corresponds to the conductivity of a water solution containing 4,150 mg./l of sodium chloride.[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. Cooling tower blow down for B-80 and B-81 shall be automatically controlled to maintain the conductivity of the circulating water below 8,925 micromho/cm. [N.J.A.C. 7:27-22.16(o)]	None.
6	Water treatment chemicals containing hexavalent chromium shall not be added to the circulating water [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records of raw materials used in recirculation water.[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
7	TSP <= 12.81 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 12.81 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Subject Item: IS4 Tanks

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015 % by weight) used in all emergency generators. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time 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.

BOP190002

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

Subject Item: IS5 Steam Venting <50 lb/hr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Subject Item: IS11 Five USTs #2 Oil Storage Tanks >10,000 gallons

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(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery. [N.J.A.C. 7:27-9.2(b)]	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 perative date of the applicable standard in 1B. [N.J.A.C. 7:27- 9.2(b)]	Monitored by review of fuel delivery records upon occurrence of event and date of storage. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event of fuel sulfur content (ppmw or % by weight) and date of storage. [N.J.A.C. 7:27-22.16(o)]	None.
3	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank(s) shall be subject to the NSPS Kb requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. The tank shall not be subject to any other NESHAPS, MACT, or NSPS air pollution control standards. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
9	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	Comply, as applicable, with the requirements of NSPS Subpart Kb, 40 CFR 60.116b(a) and (b). [40 CFR 60]	None.	None.	None.

BOP190002

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

Subject Item: IS14 Natural Gas Fired Space Heat Boiler

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period no longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	The fuel for IS14 is limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Subject Item: IS15 Two Diesel Fired Emergency Generators <1 MMBTU/hr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Comply, as applicable, with the requirements of N.J.A.C. 7:27-3. [N.J.A.C. 7:27- 3]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015 % by weight). Maximum allowable sulfur content in No. 2 and lighter fuel oil used in all emergency generators. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
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 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
4	NOx (Total) <= 1.03 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.22 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 0.08 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 0.07 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.07 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.07 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U1 COGENERATION PLANT, 74 MM BTU/HR GAS TURBINE #1 & #3, SUBJECT TO NSPS SUBPART GG
Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>Subject to Federal Requirements:</p> <p>* 40 CFR 60, NSPS Subpart A - General Provisions</p> <p>* 40 CFR 60, NSPS Subpart GG - Standards of Performance for Stationary Gas Turbines [40 CFR Federal Rules Summary]</p>	None.	None.	None.
2	<p>INITIAL STACK TESTING SUMMARY:</p> <p>The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for NO_x, CO and VOC for OS1 & OS6 while operating each turbine combusting natural gas, for NO_x, CO, VOC and PM-10 for OS2 & OS7 while operating each turbine & its associated duct burner together combusting natural gas and NO_x, CO, VOC and PM-10 for OS3 & OS8 while operating each turbine combusting distillate oil, as specified in the compliance plan.</p> <p>The permittee shall provide EMS with the turbine load performance curve with the protocol. The duct burner shall be in operation during stack testing.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: The stack test must be conducted either within 180 days from the date of the approved initial operating permit OR, for new or modified source, within 180 days after initial startup of the new or modified source or within 60 days of approval of a timely submitted protocol, whichever comes later.</p> <p>Pursuant to N.J.A.C. 7:27-16.23(c) and 19.15(c), the initial stack test to demonstrate compliance with VOC/NO_x RACT standards shall be conducted within 180 days from the date on which source operation commences operation.</p> <p>If a source is subject to NSPS, extending the testing date beyond 180 days after the source's initial startup requires prior approval from US EPA. [N.J.A.C. 7:27-22.18] and [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved initial (or modified) operating permit. 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: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and [N.J.A.C. 7:27-22.18(h)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>RENEWAL STACK TESTING SUMMARY:</p> <p>The permittee shall conduct a stack test no later than every five years (see General Provisions) from the last stack test using an approved protocol to demonstrate compliance with emission limits for NO_x, CO and VOC for OS1 & OS6 while operating each turbine combusting natural gas, for NO_x, CO, VOC and PM-10 for OS2 & OS7 while operating each turbine & its associated duct burner together combusting natural gas and NO_x, CO, VOC and PM-10 for OS3 & OS8 while operating each turbine combusting distillate oil, as specified in the compliance plan.</p> <p>The permittee shall provide EMS with the turbine load performance curve with the protocol. The duct burner shall be in operation during stack testing.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s).</p> <p>[N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 12 months prior to the completion of the five year period since the last stack test. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief.</p> <p>Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>RENEWAL STACK TESTING SUMMARY (Continued):</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. The permittee shall provide EMS with the turbine load performance curve with the protocol. The duct burner shall be in operation during stack testing. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s).</p> <p>[N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. 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: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>
5	<p>The owner or operator shall develop a QA/QC plan for each CEMS/COMS required by this permit prepared in accordance with the NJDEP Technical Manual 1005 posted on the AQPP webpage at http://www.state.nj.us/dep/aqpp. [N.J.A.C. 7:27-22.16(a)]</p>	<p>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)].</p>	<p>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)].</p>	<p>None.</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	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]	Opacity: Monitored by visual determination each month during operation, based on any consecutive 30-minute period required during operation on distillate fuel oil. The permittee shall conduct the visual inspection during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions (other than condensed water vapor) greater than the prescribed standard. If visible emissions are observed and the corrective action taken does not correct the opacity problem within 24 hours, the permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each operating day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(e)]	Opacity: Recordkeeping by manual logging of parameter each month during operation. The permittee shall maintain the following records: (1) Date and time of inspection; (2) Emission point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective actions taken if necessary; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(e)]	Conduct an inspection: Upon occurrence of event. If visible emissions are observed, the permittee shall verify that the equipment and/ or control device causing the emission is operating according to manufacturer's specifications and the compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee shall report any permit violation to the Department pursuant to N.J.A.C. 7:27-8.13(d)4. [N.J.A.C. 7:27-22.16(e)]
7	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- 9.2(b)]	Other: Keep certificate of analysis showing fuel sulfur content. Per Delivery.[N.J.A.C. 7:27- 9.2(b)].	None.
8	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 perative date of the applicable standard in 1B. [N.J.A.C. 7:27- 9.2(b)]	Monitored by review of fuel delivery records upon occurrence of event and date of storage. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event of fuel sulfur content (ppmw or % by weight) and date of storage. [N.J.A.C. 7:27-22.16(o)]	None.
9	VOC (Total) <= 50 ppmvd @ 7% O2 for Forney Duct Burners #1 (E1028) and #3 (E1032). Duct burner cannot operate independently without a turbine. [N.J.A.C. 7:27-16.8(b)1]	Other: The permittee shall provide a documentation on how duct burner (E1028) can only operate with its associated gas turbine (E9015), once initial and prior to permit expiration.[N.J.A.C. 7:27-16.23(a)2].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system prior to permit expiration date. Record the date of the documentation and the person recording the information. [N.J.A.C. 7:27-22.16(e)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO <= 100 ppmvd @ 7% O2 for Forney Duct Burners #1 (E1028) and #3 (E1032). Duct burner cannot operate independently without a turbine. [N.J.A.C. 7:27-16.8(b)2]	Other: The permittee shall provide a documentation on how duct burner (E1028) can only operate with its associated gas turbine (E9015), once initial and prior to permit expiration.[N.J.A.C. 7:27-16.23(a)2].	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system prior to permit expiration date. Record the date of the documentation and the person recording the information. [N.J.A.C. 7:27-22.16(e)]	None.
11	VOC (Total) <= 50 ppmvd @ 15% O2 for Gas Turbine #1 (E9015) and Gas Turbine #3 (E9016). [N.J.A.C. 7:27-16.9(c)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See Operating Scenarios OS1 to OS3 for stack testing requirements. [N.J.A.C. 7:27-16.23(a)2]	VOC (Total): Recordkeeping by stack test results prior to permit expiration date. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Requirements specified in this permit. For an extension of the submittal date, the permittee may request, in writing, to Bureau of Technical Services. A compliance plan change is not required. [N.J.A.C. 7:27-22.16(o)]
12	CO <= 100 ppmvd @ 15% O2 for Gas Turbine #1 (E9015) and Gas Turbine #3 (E9016). [N.J.A.C. 7:27-16.9(c)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-16.23(a)2]	CO: Recordkeeping by stack test results prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Requirements specified in this permit. For an extension of the submittal date, the permittee may request, in writing, to Bureau of Technical Services. A compliance plan change is not required. [N.J.A.C. 7:27-22.16(o)]
13	Any NOx testing pursuant to N.J.A.C. 7:27-19.15 shall be conducted concurrently with CO testing. The applicable NOx emission limits in this subchapter 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. 7:27-19.15(a)2]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	<p>COMBUSTION ADJUSTMENT FOR DUCT BURNERS:</p> <p>The permittee shall annually inspect combustion process as specified at N.J.A.C. 7:27-19.16, for Forney Duct Burners #1 (E1028) and #3 (E1032). [N.J.A.C. 7:27-19.16]</p>	None.	Recordkeeping by manual logging of parameter annually. At a minimum, following information shall be logged: Name of person, date and time. [N.J.A.C. 7:27-22.16(e)]	None.
15	<p>COMBUSTION ADJUSTMENT FOR DUCT BURNERS:</p> <p>The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is inspected and that the adjusted equipment or source operation is maintained to operate consistent with the annual inspection. [N.J.A.C. 7:27-19.16(e)]</p>	Other: Monitored by the operating parameter settings that are established after the combustion process is inspected in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is inspected and retain until the next annual inspection, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
16	<p>COMBUSTION ADJUSTMENT FOR TURBINES:</p> <p>The owner or operator of a stationary combustion turbine that has a maximum gross heat input rate of 25 million BTU per hour or more shall adjust the combustion process in accordance with the procedure set forth at N.J.A.C. 7:27-19.16 and in accordance with the manufacturer's recommended procedures and maintenance schedules. [N.J.A.C. 7:27-16.9(f)] and [N.J.A.C. 7:27-19.5(e)]</p>	Other: Monitored by continuous emission monitoring (CEMS) or by periodic emission monitoring upon performing combustion adjustment. 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>Recordkeeping by data acquisition system (DAS) / electronic data storage upon performing combustion adjustment or by manual logging of parameter or storing data in a computer data system. The permittee shall record the following information for each adjustment in a log book or computer data system:</p> <ol style="list-style-type: none"> 1. The date and times the adjustment began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentration of NO_x, CO, and O₂ measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment. <p>The records shall be kept for a minimum of 5 years and be readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(h)]</p>	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	<p>COMBUSTION ADJUSTMENT FOR TURBINES:</p> <p>The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]</p>	Other: Monitor and maintain the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted. [N.J.A.C. 7:27-19.16(e)].	None.
18	<p>The following information shall be used for annual emission calculations for NO_x, VOC, SO₂, TSP & PM-10 under their Monitoring Requirement . ALL pounds per hour emission rates and heat input rate factors shall be based on a most recently approved stack test data.</p> <p>RT_g = Maximum heat input rate in MMBtu/hr (HHV) for turbine alone while using natural gas (NG) as fuel; H_g = Heat content of NG in MMBTU/cubic feet (HHV) or 0.00103 MMBTU/cubic feet; TT_g = NG consumed when operating turbine alone in cubic feet/12 consecutive months sum; RT_o = Maximum heat input rate in MMBtu/hr (HHV) for turbine alone while using distillate fuel oil (FO) as fuel; H_o = Heat content of FO in MMBTU/gal (HHV) or 0.1385 MMBTU/gal; TT_o = FO consumed when operating turbine alone in gallons/12 consecutive months sum. RTD_g = Maximum Heat input rate in MMBtu/hr (HHV) for turbine plus duct burner while using NG as fuel; TDT_g = NG consumed when operating turbine plus duct burner in cubic feet/12 consecutive months sum; [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	CO <= 96.2 tons/yr maximum annual emissions. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by continuous emission monitoring system continuously, based on a consecutive 12 month period (rolling 1 month basis). CEM data will be used to calculate annual emissions. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The information shall include inputs used to calculate the annual CO emission. [N.J.A.C. 7:27-22.16(o)]	None.
20	NOx (Total) <= 96.1 tons/yr maximum annual emissions. [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) , as follows: $\text{NOx (total) (TPY)} = [((\text{Tg} / \text{RTg}) \times \text{Hg} \times \text{TTg}) + ((\text{To} / \text{RTo}) \times \text{Ho} \times \text{TTo}) + ((\text{TDg} / \text{RTDg}) \times \text{Hg} \times \text{TDTg})] / 2000$ where, Tg = NOx in lbs/hr for turbine alone while using natural gas as fuel (Tg); TDg = NOx in lbs/hr for turbine plus duct burner while using natural gas as fuel (TDg); To = NOx in lbs/hr for turbine alone while using distillate fuel oil as fuel (To);. [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 in a permanently bound logbook or readily available computer files. The information shall include all the information used to calculate the annual emissions. [N.J.A.C. 7:27-22.16(o)]	None.
21	VOC (Total) <= 19.4156 tons/yr maximum annual emissions, which includes Formaldehyde emissions. [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) , as follows: $\text{VOCtotal (TPY)} = [((\text{Tg} / \text{RTg}) \times \text{Hg} \times \text{TTg}) + ((\text{To} / \text{RTo}) \times \text{Ho} \times \text{TTo}) + ((\text{TDg} / \text{RTDg}) \times \text{Hg} \times \text{TDTg})] / 2000$ where, Tg = VOC in lbs/hr for turbine alone while using natural gas as fuel (Tg); TDg = VOC in lbs/hr for turbine plus duct burner while using natural gas as fuel (TDg); To = VOC in lbs/hr for turbine alone while using distillate fuel oil as fuel (To);. [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 in a permanently bound logbook or readily available computer files. The information shall include all the information used to calculate the annual emissions. [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
22	SO ₂ ≤ 2.9 tons/yr maximum annual emissions. [N.J.A.C. 7:27-22.16(a)]	SO ₂ : Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis) , as follows: $\text{SO}_2 \text{ (TPY)} = \text{Annual fuel oil used amount (gal/yr)} \times 7.2 \text{ (density of fuel oil in lbs/gal)} \times 0.015 \text{ (sulfur content of fuel oil in weight \%)} / 100 \times 1/2000 \text{ (ton/lbs)} \times 2 \text{ (weight ratio of SO}_2 \text{ to S). [N.J.A.C. 7:27-22.16(o)]}$	SO ₂ : Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a permanently bound logbook or readily available computer files. The information shall include all the information used to calculate the annual emissions. [N.J.A.C. 7:27-22.16(o)]	None.
23	TSP ≤ 20.6 tons/yr maximum annual emissions. [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) , as follows: $\text{TSP}_{\text{total}} \text{ (TPY)} = [((\text{Tg} / \text{RTg}) \times \text{Hg} \times \text{TTg}) + ((\text{To} / \text{RTo}) \times \text{Ho} \times \text{TTo}) + ((\text{TDg} / \text{RTDg}) \times \text{Hg} \times \text{TDTg})] / 2000$ where, Tg = PM ₁₀ or TSP in lbs/hr for turbine alone while using natural gas as fuel (Tg); TDg = PM ₁₀ or TSP in lbs/hr for turbine plus duct burner while using natural gas as fuel (TDg); To = PM ₁₀ or TSP in lbs/hr for turbine alone while using distillate fuel oil as fuel (To);. [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 in a permanently bound logbook or readily available computer files.. The information shall include all the information used to calculate the annual emissions. [N.J.A.C. 7:27-22.16(o)]	None.
24	PM-10 (Total) ≤ 20.6 tons/yr maximum annual emissions. [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) , as follows: $\text{PM}_{10\text{total}} \text{ (TPY)} = [((\text{Tg} / \text{RTg}) \times \text{Hg} \times \text{TTg}) + ((\text{To} / \text{RTo}) \times \text{Ho} \times \text{TTo}) + ((\text{TDg} / \text{RTDg}) \times \text{Hg} \times \text{TDTg})] / 2000$ where, Tg = PM ₁₀ in lbs/hr for turbine alone while using natural gas as fuel (Tg); TDg = PM ₁₀ in lbs/hr for turbine plus duct burner while using natural gas as fuel (TDg); To = PM ₁₀ in lbs/hr for turbine alone while using distillate fuel oil as fuel (To);. [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 in a permanently bound logbook or readily available computer files. The information shall include all the information used to calculate the annual emissions. [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
25	PM-2.5 (Total) <= 20.6 tons/yr maximum annual emissions. [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) , as follows: $PM_{10total} (TPY) = [(Tg / RTg) \times Hg \times TTg] + [(To / RTo) \times Ho \times TTo] + [(TDg / RTDg) \times Hg \times TDTg] / 2000$ where, Tg = PM10 in lbs/hr for turbine alone while using natural gas as fuel (Tg); TDg = PM10 in lbs/hr for turbine plus duct burner while using natural gas as fuel (TDg); To = PM10 in lbs/hr for turbine alone while using distillate fuel oil as fuel (To);. [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 in a permanently bound logbook or readily available computer files. The information shall include all the information used to calculate the annual emissions. [N.J.A.C. 7:27-22.16(o)]	None.
26	Acetaldehyde <= 0.0106 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	Acrolein <= 0.0017 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	Arsenic Emissions <= 0.001018 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
29	Beryllium Emissions <= 0.00001 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
30	Butadiene (1,3-) <= 0.0008 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
31	Cadmium Emissions <= 0.0004976 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
32	Cobalt Emissions <= 0.0000163 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
33	Dimethylbenz(a)anthracene (7,12-) <= 0.00000311 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
34	Formaldehyde <= 0.4156 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
35	Manganese Emissions <= 0.0351 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	Naphthalene <= 0.0019 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
37	Nickel Emissions <= 0.000408 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
38	Polynuclear aromatic hydrocarbons (PAHs) <= 0.0024 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
39	Propylene oxide <= 0.0078 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
40	Natural Gas Usage <= 1,886 MMft ³ . The natural gas usage limit shall be a combined usage from the entire cogeneration plant [GT#1 (E9015), GT#3 (E9016), DB#1 (E1028), & DB#3 (E1032)] and shall be 12 consecutive month rolling sum on a monthly basis. [N.J.A.C. 7:27-22.16(a)]	<p>Natural Gas Usage: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis).</p> <p>The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a permanently bound logbook or readily available computer files.</p> <p>Total NG consumption in million cubic feet (MMft³) per any consecutive 12-month period shall be calculated by the sum of the MMft³ consumed during any one month added to the sum of the MMft³ consumed during the preceding 11 months. The permittee shall select the time period for accounting, such as fiscal month, calendar month or production month. Once selected, the period must not be changed without prior approval from the Department. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
41	Fuel Oil Usage \leq 1.3246 MMgal/yr. The fuel oil usage limit shall be a combined usage from the entire cogeneration plant [GT#1 (E9015) and GT#3 (E9016)] and shall be 12 consecutive month rolling sum on a monthly basis, from minor modification BOP060003. [N.J.A.C. 7:27-22.16(a)]	Fuel Oil Usage: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-22.16(e)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a permanently bound logbook or readily available computer files. Total fuel consumption in gallons per any consecutive 12-month period shall be calculated by the sum of the gallons consumed during any one month added to the sum of the gallons consumed during the preceding 11 months. The permittee shall select the time period for accounting, such as fiscal month, calendar month or production month. Once selected, the period must not be changed without prior approval from the Department. [N.J.A.C. 7:27-22.16(o)]	None.
42	Turbine fuel is limited to natural gas and distillate fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
43	Duct Burner fuel is limited to natural gas only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
44	Maximum Gross Heat Input \leq 74 MMBTU/hr (HHV) for Gas Turbine #1 (E9015) and Gas Turbine #3 (E9016), based on natural gas firing at 0 degrees Fahrenheit. Maximum gross heat input \leq 64 MMBTU/hr (HHV) natural gas firing at 60 degrees Fahrenheit. [N.J.A.C. 7:27-22.16(e)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously. The Permittee shall document the gross heat input rate. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
45	Maximum Gross Heat Input \leq 62 MMBTU/hr (HHV) for Gas Turbine #1 (E9015) and Gas Turbine #3 (E9016), based on distillate fuel oil firing at 0 degrees Fahrenheit. Maximum gross heat input \leq 54 MMBTU/hr (HHV) distillate fuel oil firing at 60 degrees Fahrenheit. [N.J.A.C. 7:27-22.16(e)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously. The Permittee shall document the gross heat input rate. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
46	Maximum Gross Heat Input <= 44 MMBTU/hr (HHV) for Forney Duct Burner #1 (E1028) and Forney Duct Burner #3 (E1032), (HHV) basis each combustion for natural gas from minor modification BOP060003. [N.J.A.C. 7:27-22.16(e)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously. The Permittee shall document the gross heat input rate. [N.J.A.C. 7:27-22.16(e)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
47	The permittee shall install, operate and maintain devices to continuously monitor and record the concentration of carbon monoxide and oxygen in the stack for Gas Turbine #1 (E9015) and Gas Turbine #3 (E9016) [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
48	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
49	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
50	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
51	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the actual date of initial startup of an affected facility postmarked within 15 days after such date. [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]
52	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of 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). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]

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

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

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
55	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. [40 CFR 60.7(f)]	None.	Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the dates of the record, except as prescribed in 40 CFR 60.7(f)(1) through (3). Sources subject to 40 CFR 70, are required to retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application, per 40 CFR 70.6(a)(3)(ii)(B). [40 CFR 60.7(f)].	None.
56	Within 60 days after achieving the maximum production rate at which the affected facility will operate, but not later than 180 days after initial startup of the facility, the owner or operator shall conduct performance test(s) and shall furnish the Administrator a written report of the results. [40 CFR 60.8(a)]	None.	None.	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of the performance test(s) to the Administrator. [40 CFR 60.8(a)]
57	The owner or operator shall conduct performance tests and data reduced in accordance with the test methods and procedures contained in each applicable subpart, unless otherwise specified and approved by the Administrator. [40 CFR 60.8(b)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
58	Performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of the performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)]	None.	None.	None.
59	The owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60.8(e). [40 CFR 60.8(d)]	None.	None.	None.
60	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. [40 CFR 60.8(f)]	None.	None.	None.
61	All continuous opacity monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests specified under 40 CFR Part 60.8. The owner or operator shall follow manufacturer's written recommendations for installation, operation and calibration of the device. [40 CFR 60.13(b)]	During any performance test required under 40 CFR Part 60.8 or within 30 days thereafter, the owner or operator shall conduct a performance evaluation of the continuous opacity monitoring system in accordance with applicable performance specification in Appendix B of 40 CFR Part 60. Monitored by other method (provide description) upon occurrence of event. [40 CFR 60.13(c)]	None.	Within 60 days of completion of the performance test, furnish the Administrator two or, upon request, more copies of the results of the performance evaluation. Submit a report: As per the approved schedule. [40 CFR 60.13(c)(2)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
62	All continuous emission monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests specified under 40 CFR Part 60.8. The owner or operator shall follow manufacturer's written recommendations for installation, operation and calibration of the device. [40 CFR 60.13(b)]	During any performance test required under 40 CFR Part 60.8 or within 30 days thereafter, the owner or operator shall conduct a performance evaluation of the continuous emission monitoring system in accordance with applicable performance specification in Appendix B of 40 CFR Part 60. Monitored by other method (provide description) upon occurrence of event. [40 CFR 60.13(c)]	None.	Within 60 days of completion of the performance test, furnish the Administrator two or, upon request, more copies of the results of the performance evaluation. Submit a report: As per the approved schedule. [40 CFR 60.13(c)(2)]
63	Except for system breakdowns, repairs, calibration checks, and zero and span adjustments, all continuous monitoring systems referenced by 40 CFR 60.13(c) measuring emissions except opacity shall be in continuous operation. They shall complete a minimum of one cycle of operation (sampling, analyzing and data recording) for each successive 15-minute period. [40 CFR 60.13(e)(2)]	Other: See Applicable Requirement. [40 CFR 60.13(e)(2)].	Other: See Applicable Requirement. [40 CFR 60.13(e)(2)].	None.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
64	The owner or operator of all continuous monitoring systems (other than opacity) shall reduce all data to 1-hour averages for time periods. One-hour period is defined in 40 CFR 60.2 as any 60-minute period commencing on the hour. For a full operating hour, 1-hour averages shall be computed from at least four valid data points, i.e., one data point in each of the 15-minute quadrants of the hour. For a partial operating hour (any clock hour with less than 60 minutes of unit operation), the owner or operator shall follow all the procedures specified at 40 CFR 60.13(h)(2) to compute 1-hour averages. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. The owners and operators complying with the requirements in 40 CFR 60.7(f)(1) or (2) must include any data recorded during periods of monitor breakdown or malfunction in the data averages. Either arithmetic or integrated averaging of all data may be used to calculate the hourly averages. The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O ₂ or ng/J of pollutant). [40 CFR 60.13(h)(2)]	None.	Other: See Applicable Requirement. [40 CFR 60.13(h)].	None.
65	All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in the applicable subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subpart to specify the emission limit. [40 CFR 60.13(h)(3)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
66	Upon modifications, emission rates for an affected facility shall be expressed as kg/hr of any pollutant discharged into the atmosphere for which a standard applies. [40 CFR 60.14(b)]	None.	None.	None.
67	The provisions set forth under an applicable subparts of 40 CFR Part 60 supersede conflicting provisions listed under Modification in 40 CFR Part 60.14. [40 CFR 60.14(f)]	None.	None.	None.
68	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]	None.	None.	None.
69	Compliance with all applicable standards must be achieved within 180 days of completion of any physical or operational change subject to the control measures specified in 40 CFR Part 60.14(a). [40 CFR 60.14(g)]	None.	None.	None.
70	The owner or operator shall notify the Administrator of the proposed replacement of components, upon reconstruction as defined at 40 CFR 60.15. [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
71	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.
72	The owner or operator shall monitor the total sulfur content of the fuel being fired in the turbine if the fuel fired in the turbine does not meet the definition of natural gas as provided in 40 CFR 60.331(u). The owner or operator shall use the methods specified in 40 CFR 60.335(b)10. The analyses may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency. [40 CFR 60.334(h)(1)]	Monitored by grab sampling at the approved frequency. Sulfur content values shall be determined on each occasion that fuel is transferred to the storage tank from any other source. If a custom fuel monitoring schedule has previously been approved, the owner or operator may continue monitoring on this schedule without submitting a special petition to the Administrator. [40 CFR 60.334(i)]	Recordkeeping by certified lab analysis results at the approved frequency. The owner or operator shall record the results of each analysis for fuel sulfur content. [40 CFR 60.334(i)]	None.
73	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 NOx emission concentration included in this permit was calculated in accordance with 40 CFR 60.332(a). In calculations, NOx emission allowance (F-value) of zero was accepted. [40 CFR 60.334(h)(2)]
74	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)]

BOP190002

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

Emission Unit: U1 COGENERATION PLANT, 74 MM BTU/HR GAS TURBINE #1 & #3, SUBJECT TO NSPS SUBPART GG

Operating Scenario: OS1 Turbine #1 Firing Natural Gas without Duct Burner, Normal Operation, OS6 Turbine #3 Firing Natural Gas without Duct Burner, Normal Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.95 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	CO <= 8.13 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(e)]
3	CO <= 50 ppmvd @ 15% O2 except for periods of start-up, shutdown and fuel transfer as defined in this permit. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitor continuously, based on a 3 hour rolling average based on a 1 hour block average. [N.J.A.C. 7:27-22.16(e)]	CO: Recordkeeping by strip chart, round chart or data acquisition (DAS) system / electronic data storage continuously. [N.J.A.C. 7:27-22.16(e)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	CO <= 50 ppmvd @ 15% O2 except for periods of start-up, shutdown and fuel transfer as defined in this permit. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	NOx (Total) <= 6.68 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 25 ppmvd @ 15% O2 except for periods of start-up, shutdown and fuel transfer as defined in this permit. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Any NOx testing conducted pursuant to this section 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. 7:27-16.9 or the permit limit for CO, whichever is more stringent, is also met (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(e)]
7	VOC (Total) <= 1.2125 lb/hr which includes Formaldehyde emissions. [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 stack testing requirement 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 stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	SO2 <= 0.3 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	TSP <= 1.95 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	PM-10 (Total) <= 1.95 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-2.5 (Total) <= 1.95 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Acetaldehyde <= 0.00296 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acrolein <= 0.000473 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Butadiene (1,3-) <= 0.0000318 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Formaldehyde <= 0.0525 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Naphthalene <= 0.0000961 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Polynuclear aromatic hydrocarbons (PAHs) <= 0.000163 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Propylene oxide <= 0.00214 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Natural Gas Usage <= 593 MMft ³ . [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190002

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

Emission Unit: U1 COGENERATION PLANT, 74 MM BTU/HR GAS TURBINE #1 & #3, SUBJECT TO NSPS SUBPART GG

Operating Scenario: OS2 Turbine #1 and 40 MM BTU/hr Duct Burner #1 Simultaneous Operation, Firing Natural Gas, Normal Operation, OS7 Turbine #3 and 40 MM BTU/hr Duct Burner #3 Simultaneous Operation, Firing Natural Gas, Normal Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.4 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	CO <= 11.68 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
3	CO <= 50 ppmvd @ 15% O2 except for periods of start-up, shutdown and fuel transfer as defined in this permit. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitor continuously, based on a 3 hour rolling average based on a 1 hour block average. [N.J.A.C. 7:27-22.16(e)]	CO: Recordkeeping by strip chart, round chart or data acquisition (DAS) system / electronic data storage continuously , and stack test results. [N.J.A.C. 7:27-22.16(e)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	CO <= 50 ppmvd @ 15% O2 except for periods of start-up, shutdown and fuel transfer as defined in this permit. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirement U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirement U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirement U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	NOx (Total) <= 10.68 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 25 ppmvd @ 15% O2 except for periods of start-up, shutdown and fuel transfer as defined in this permit. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Any NOx testing conducted pursuant to this section 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. 7:27-16.9 or the permit limit for CO, whichever is more stringent, is also met (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
7	VOC (Total) <= 2.3258 lb/hr which includes Formaldehyde emissions. [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 stack testing requirement 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 stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	SO2 <= 0.4 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	TSP <= 2.4 lb/hr. [N.J.A.C. 7:27-22.16(e)]	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 stack testing requirement 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 stack testing requirement U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirement U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	PM-10 (Total) <= 2.4 lb/hr. [N.J.A.C. 7:27-22.16(e)]	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 stack testing requirement 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 stack testing requirement U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirement U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	PM-2.5 (Total) <= 2.4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Acetaldehyde <= 0.00296 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acrolein <= 0.000473 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Arsenic Emissions <= 0.00000888 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Butadiene (1,3-) <= 0.0000318 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Cadmium Emissions <= 0.0000488 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Cobalt Emissions <= 0.00000373 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Dimethylbenz(a)anthracene (7,12-) <= 7.1E-7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Formaldehyde <= 0.0558 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Naphthalene <= 0.000123 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Nickel Emissions <= 0.0000932 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Polynuclear aromatic hydrocarbons (PAHs) <= 0.000163 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Propylene oxide <= 0.00214 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	Natural Gas Usage \leq 943 MMft ³ . [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190002

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

Emission Unit: U1 COGENERATION PLANT, 74 MM BTU/HR GAS TURBINE #1 & #3, SUBJECT TO NSPS SUBPART GG

Operating Scenario: OS3 Turbine #1 Firing Distillate Fuel Oil without Duct Burner, Normal Operation, OS8 Turbine #3 Firing Distillate Fuel Oil without Duct Burner, Normal Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 13 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	CO <= 7.22 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
3	CO <= 50 ppmvd @ 15% O2 except for periods of start-up, shutdown and fuel transfer as defined in this permit. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitor continuously, based on a 3 hour rolling average based on a 1 hour block average. [N.J.A.C. 7:27-22.16(e)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(e)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	CO <= 50 ppmvd @ 15% O2 except for periods of start-up, shutdown and fuel transfer as defined in this permit. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	NOx (Total) <= 15.42 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 65 ppmvd @ 15% O2 except for periods of start-up, shutdown and fuel transfer as defined in this permit. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
7	VOC (Total) <= 2.0783 lb/hr which includes Formaldehyde emissions. [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 stack testing requirement 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 stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	VOC (Total) <= 25 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(e)]	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 stack testing requirement 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 stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
9	NOx (Total) <= 2 lb/MW-hr. This limit is applicable on and after May 20, 2009 for combined cycle turbine >= 25 MMBtu/hr. [N.J.A.C. 7:27-19.5(d)]	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 1-hour tests. In accordance with N.J.A.C. 7:27-19.15(a)2, any NOx testing conducted pursuant to this section 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. 7:27-16.9 or the permit limit for CO, whichever is more stringent, is also met. [N.J.A.C. 7:27-19.15(a)2]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Keep a record in a permanently bound log book or by an electronic method that is easily accessible on site. [N.J.A.C. 7:27-19.19(a)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]
10	SO2 <= 0.09 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	TSP <= 2.96 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	PM-10 (Total) <= 2.96 lb/hr. [N.J.A.C. 7:27-22.16(e)]	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 stack testing requirement 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 stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule (see stack testing requirement U1/OS Summary). [N.J.A.C. 7:27-22.16(o)] MOST STRINGENT.
13	PM-2.5 (Total) <= 2.96 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None. MOST STRINGENT.
14	Arsenic Emissions <= 0.000678 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Beryllium Emissions <= 0.0000191 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Butadiene (1,3-) <= 0.000986 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Cadmium Emissions <= 0.000296 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Formaldehyde <= 0.0173 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Manganese Emissions <= 0.0487 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Naphthalene <= 0.00216 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Polynuclear aromatic hydrocarbons (PAHs) <= 0.00247 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Emission Unit: U1 COGENERATION PLANT, 74 MM BTU/HR GAS TURBINE #1 & #3, SUBJECT TO NSPS SUBPART GG

Operating Scenario: OS5 Turbine #1 with or without 40 MM BTU/hr Duct Burner #1, Startup, Shutdown, Fuel Transfer Periods, Firing NG or Distillate Fuel Oil, OS10 Turbine #3 with or without 40 MM BTU/hr Duct Burner #3, Startup, Shutdown, Fuel Transfer Periods, Firing NG or Distillate Fuel Oil

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Start-up Period <= 30 minutes. The duration of the exemption from concentration limits during start-up shall not exceed 30 minutes. [N.J.A.C. 7:27-22.16(e)]	Start-up Period: Monitored by hour/time monitor upon occurrence of event. [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 <= 30 minutes. The duration of the exemption from concentration limits during shutdown shall not exceed. [N.J.A.C. 7:27-22.16(e)]	Shutdown Period: Monitored by hour/time monitor upon occurrence of event. [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	Fuel Transfer Period <= 30 minutes. The duration of the exemption from concentration limits during fuel transfer shall not exceed. [N.J.A.C. 7:27-22.16(e)]	Fuel Transfer Period: Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Fuel Transfer Period: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
4	Startup is defined as the period of time from initiation of the combustion turbine operation until the unit reaches steady state at 50% load conditions. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Shutdown is defined as that period of time from initial lowering of the combustion turbine output below 50% of full load, to the cessation of the combustion turbine operation. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Fuel transfer period is defined as that period of time from the initiation of the transfer process in the gas turbine between natural gas and fuel oil to the completion of this process. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The Permittee must track the number of start-up, shut-down, and fuel transfer period (SSF) occurrence for E9015 and/or E9015/E1028. The permittee must comply with the lbs/hr limits that are shown in Operating Scenario: OS1 through OS4 for all pollutants, except CO. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation of the SSF occurred for the month. Recordkeeping method shall also include manual logging of the event. [N.J.A.C. 7:27-22.16(e)]	None.
8	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitor continuously, based on one calendar day. [N.J.A.C. 7:27-22.16(e)]	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): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
9	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.

BOP190002

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U310 THREE (3) DIESEL FIRED EMERGENCY GENERATORS and ONE (1) DIESEL FIRE PUMP, SUBJECT TO AREA MACT ZZZZ

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Subject to Federal Requirements: * 40 CFR 63, MACT, Subpart A - General Provisions * 40 CFR 63, MACT, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Federal Rules Summary]	None.	None.	None.
2	The equipment in this emission unit E1006, E1011, E9019 are emergency generators and E9018 is Emergency Fire Pump. [N.J.A.C. 7:27-22.16(a)]	None.	None.	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	Particulate Emissions <= 5.43 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
5	Sulfur Content in Fuel <= 15 ppmw (0.0015 % by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
6	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in 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
7	<p>FOR EMERGENCY GENERATORS ONLY: 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</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; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons 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 or maintenance). [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. The owner or operator shall maintain on site and 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 hours of operation for emergency use (per month). 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 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> <ol style="list-style-type: none"> The reason for its operation; The date(s) of operation and the start up and shut down time; The total operating time for testing or maintenance based on the generator's hour meter; and 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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>FOR FIRE PUMP ONLY:</p> <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> <ol style="list-style-type: none"> 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, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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 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>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; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons 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 or maintenance). [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. The owner or operator shall maintain on site and record the following information:</p> <ol style="list-style-type: none"> 1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: <ol 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 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>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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	<p>Each 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. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.
10	The fuel for the emergency generators and fire pump is limited to diesel fuel. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	<p>Hours of Operation <= 100 hr/yr for testing and maintenance, per each generator.</p> <p>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)]</p>	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 each month during operation. The owner or operator shall maintain onsite and record in a logbook or computer data system the total operating time for testing and maintenance from the generator's hour meter. The total hours of operation limit shall be for purposes of establishing potential to emit. [N.J.A.C. 7:27-19.11]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	CO <= 0.72 tons/yr. Annual emission limit based on the permitted hours per year of operation for all equipment included in emission unit U310. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	NOx (Total) <= 3.51 tons/yr. Annual emission limit based on the permitted hours per year of operation for all equipment included in emission unit U310. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	VOC (Total) <= 0.27 tons/yr. Annual emission limit based on the permitted hours per year of operation for all equipment included in emission unit U310. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	SO2 <= 0.002 tons/yr. Annual emission limit based on the permitted hours per year of operation for all equipment included in emission unit U310. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	TSP <= 0.24 tons/yr. Annual emission limit based on the permitted hours per year of operation for all equipment included in emission unit U310. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-10 (Total) <= 0.24 tons/yr. Annual emission limit based on the permitted hours per year of operation for all equipment included in emission unit U310. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	PM-2.5 (Total) <= 0.24 tons/yr. Annual emission limit based on the permitted hours per year of operation for all equipment included in emission unit U310. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2d, item 4a to Subpart ZZZZ of 40 CFR 63. (MACT, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [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 has an option of utilizing an oil analysis program, at the same frequency specified for changing the oil, in order to extend the specified oil change requirement, per 40 CFR 63.6625(i). 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. (MACT, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [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.

BOP190002

**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. (MACT, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63.6605(a)]	None.	None.	None.
22	At all times the owner or operate must operate and maintain a RICE including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. (MACT, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [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. (MACT, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
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. (MACT, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [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.
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. (MACT, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
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. (MACT, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63.6665]	None.	None.	None.

BOP190002

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U310 THREE (3) DIESEL FIRED EMERGENCY GENERATORS and ONE (1) DIESEL FIRE PUMP, SUBJECT TO AREA MACT ZZZZ

Operating Scenario: OS4 EMERGENCY GENERATOR B-39 (E9019), 8.01 MM Btu/hr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 7.61 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 35.33 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	VOC (Total) <= 2.8 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	SO2 <= 2.32 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	TSP <= 2.48 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-10 (Total) <= 2.48 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	PM-2.5 (Total) <= 2.48 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Maximum Gross Heat Input <= 8.01 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: manufacturers rated heat input[N.J.A.C. 7:27-22.16(o)].	Other: maintain record of manufacturers specifications on site for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.

BOP190002

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

Emission Unit: U310 THREE (3) DIESEL FIRED EMERGENCY GENERATORS and ONE (1) DIESEL FIRE PUMP, SUBJECT TO AREA MACT ZZZZ

Operating Scenario: OS7 EMERGENCY GENERATOR B-76 OUT (E1006), 3.66 MM Btu/hr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 3.48 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 16.14 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	VOC (Total) <= 1.28 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	SO2 <= 1.06 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	TSP <= 1.13 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-10 (Total) <= 1.13 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	PM-2.5 (Total) <= 1.13 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Maximum Gross Heat Input <= 3.66 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: manufacturers rated heat input[N.J.A.C. 7:27-22.16(o)].	Other: maintain record of manufacturers specifications on site for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.

BOP190002

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

Emission Unit: U310 THREE (3) DIESEL FIRED EMERGENCY GENERATORS and ONE (1) DIESEL FIRE PUMP, SUBJECT TO AREA MACT ZZZZ

Operating Scenario: OS12 EMERGENCY GENERATOR PORTABLE (E1011), 3.38 MM Btu/hr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 3.21 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 14.91 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	VOC (Total) <= 1.18 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	SO2 <= 0.98 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	TSP <= 1.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-10 (Total) <= 1.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	PM-2.5 (Total) <= 1.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Maximum Gross Heat Input <= 3.38 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: manufacturers rated heat input[N.J.A.C. 7:27-22.16(o)].	Other: maintain record of manufacturers specifications on site for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.

BOP190002

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

Emission Unit: U310 THREE (3) DIESEL FIRED EMERGENCY GENERATORS and ONE (1) DIESEL FIRE PUMP, SUBJECT TO AREA MACT ZZZZ

Operating Scenario: OS14 FIRE PUMP B-61 (E9018), 1.98 MM Btu/hr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 0.17 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 3.91 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	VOC (Total) <= 0.134 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	SO2 <= 0.33 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	TSP <= 0.041 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-10 (Total) <= 0.041 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.041 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Maximum Gross Heat Input <= 1.98 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: manufacturers rated heat input[N.J.A.C. 7:27-22.16(o)].	Other: maintain record of manufacturers specifications on site for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.

BOP190002

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

Emission Unit: U311 SPACE HEATER (BOILER B-77), 2.22 MMBtu/hr

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.6]. [N.J.A.C. 7:27- 3.2]	None.	None.	None.
2	Comply, as applicable, with the particulate emission limit requirements of N.J.A.C. 7:27-4. [N.J.A.C. 7:27- 4]	None.	None.	None.
3	CO <= 0.8 tons/yr Annual emission limit. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations annually, based on a 12 calendar month period. Annual emissions will be calculated based upon emission factors and actual fuel consumption. [N.J.A.C. 7:27-22.16(e)]	CO: Recordkeeping by manual logging of parameter annually in a permanently bound logbook or readily accessible computer memory. Annual emissions will be calculated based upon emission factors and actual fuel consumption. [N.J.A.C. 7:27-22.16(e)]	None.
4	NOx (Total) <= 1.01 tons/yr Annual emission limit. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations annually, based on a 12 calendar month period. Annual emissions will be calculated based upon emission factors and actual fuel consumption. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Recordkeeping by manual logging of parameter annually in a permanently bound logbook or readily accessible computer memory. Annual emissions will be calculated based upon emission factors and actual fuel consumption. [N.J.A.C. 7:27-22.16(e)]	None.
5	The emissions of other contaminants from the equipment covered by this permit are stated to be below the reporting thresholds as stated in N.J.A.C. 7:27-22, Appendix 1, Tables A & B. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Cadmium Emissions <= 0.0000121 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Emission Unit: U311 SPACE HEATER (BOILER B-77), 2.22 MMBtu/hr

Operating Scenario: OS1 B77 Boiler

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.67 lb/hr Particulate emission standard from combustion of fuel. [N.J.A.C. 7:27-4.2(a)].	None.	None.	None.
2	CO <= 0.184 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Cadmium Emissions <= 0.00000232 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	The emissions of other contaminants from the equipment covered by this emission unit are stated to be below the reporting thresholds. [N.J.A.C. 7:27-17]	None.	None.	None.
6	Natural Gas Usage <= 18.51 MMft ³ /yr. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Recordkeeping by manual logging of parameter annually. [N.J.A.C. 7:27-22.16(e)]	None.
7	Maximum Gross Heat Input <= 2.22 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: burner rated capacity[N.J.A.C. 7:27-22.16(o)].	Maximum Gross Heat Input: Recordkeeping by manual logging of parameter once initially. Keep on site for the life of the equipment the manufacturer's rated heat input of the unit. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190002

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

Emission Unit: U313 B39-TWO (2) BOILERS (#7 & #8) FIRING NATURAL GAS OR NO. 2 FUEL OIL, SUBJECT TO AREA MACT JJJJJJ

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>Subject to Federal Requirements:</p> <p>* 40 CFR 63, MACT, Subpart A - General Provisions</p> <p>* 40 CFR 63, MACT, Subpart JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources [40 CFR Federal Rules Summary]</p>	None.	None.	None.
2	<p>RENEWAL STACK TESTING SUMMARY :</p> <p>The permittee shall conduct a stack test no later than every five years (see General Provisions) from the last stack test using an approved protocol to demonstrate to demonstrate compliance with emission limits for boiler #7 & #8, with emission limits for NOx and CO as specified in the compliance plan for OS1 & OS3 while combusting natural gas, and for NOx, CO, TSP and PM-10 for OS2 & OS4 while combusting distillate oil.</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>[N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s).</p> <p>[N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 12 months prior to the completion of the five year period since the last stack test. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]</p>

U313 B39-TWO (2) BOILERS (#7 & #8) FIRING NATURAL GAS OR NO.

OS Summary

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	No visible emissions, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(e)] & [N.J.A.C. 7:27- 3.2]	Other: Visual determination. Weekly when burning #2 fuel oil in Boilers #7 and #8. None when burning natural gas. The permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such a test shall be conducted once per day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(e)]&[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manual logging of observations in a permanently bound logbook or readily accessible electronic computer files when burning #2 fuel oil and none when burning natural gas. The permittee must retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection [N.J.A.C. 7:27-22.16(e)]&[N.J.A.C. 7:27-22.16(o)].	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. [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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	VOC (Total) <= 50 ppmvd @ 7% O ₂ (24-hour average) limit for boilers #7 and #8 from N.J.A.C. 7:27-16.8. This limit applies at all times, including startup, shutdown and fuel transfer. [N.J.A.C. 7:27-16.8(b)1]	None.	None.	None.
7	CO <= 100 ppmvd @ 7% O ₂ limit for boilers #7 and #8 from N.J.A.C. 7:27-16.8. This limit applies at all times, including startup, shutdown and fuel transfer. [N.J.A.C. 7:27-16.8(b)2]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test). See U313, OS Summary for details. [N.J.A.C. 7:27-16.23]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U313, OS Summary for details. [N.J.A.C. 7:27-16.8(b)]	Submit a stack test report: As per the approved schedule. See U313, OS Summary for details. [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>COMBUSTION ADJUSTMENT PROCESS</p> <p>The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year.</p> <p>The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]</p>	<p>Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005 and the procedure set forth at N.J.A.C. 7:27-19.16(a) as follows: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made; and 6. Convert the emission values of NOx, CO and O2 concentrations measured in lb/MMBTU according to the following formula: $\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000$, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: $(20.9\%)/(20.9\% - \text{O2 measured})$, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment:</p> <ol style="list-style-type: none"> 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. <p>The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]</p>	<p>Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed.</p> <p>The report shall be submitted electronically to: www.njdeponline.com. Instructions for submitting this report online are specified at: http://www.nj.gov/dep/aqpp/adjustment.htm. [N.J.A.C. 7:27-19.16(d)] and. [N.J.A.C. 7:27-19.16(c)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
10	Each boiler #7 and #8 shall be equipped with an oxygen trim system that maintain optimum air-to-fuel ratio. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Fuel Oil Usage <= 2.697 MMgal/yr total distillate oil use limit for both the boilers #7 & #8 combined. [N.J.A.C. 7:27-22.16(a)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis) for the monitoring of cumulative fuel use in each boiler and cumulative combined fuel usage in all two boilers in any calendar year for distillate fuel oil shall be provided. The fuel monitoring instrument shall be maintained, operated, and calibrated in accordance with the manufacturer's recommendation. [N.J.A.C. 7:27-22.16(o)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system continuously. [N.J.A.C. 7:27-22.16(o)]	None.
12	Natural Gas Usage <= 1,067.7 MMft ³ /yr total natural gas use limit for both the boilers #7 & #8 combined. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis) for the monitoring of cumulative fuel use in each boiler and cumulative combined fuel usage in all three boilers in any calendar year for natural gas shall be provided. The fuel monitoring instrument shall be maintained, operated, and calibrated in accordance with the manufacturer's recommendation. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system continuously. [N.J.A.C. 7:27-22.16(o)]	None.
13	CO <= 62.7 tons/yr. Maximum annual emissions for both boilers #7 and #8, combusting natural gas and distillate oil. [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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	NOx (Total) <= 77.3 tons/yr. Maximum annual emissions for both boilers #7 and #8, combusting natural gas and distillate oil. [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.
15	VOC (Total) <= 16.422 tons/yr which includes Formaldehyde emissions. Maximum annual emissions for both boilers #7 and #8, combusting natural gas and distillate oil. [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.
16	SO2 <= 4.1 tons/yr. Maximum annual emissions for both boilers #7 and #8, combusting natural gas and distillate oil. [N.J.A.C. 7:27-22.16(a)]	SO2: 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)]	SO2: 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.
17	TSP <= 11.8 tons/yr. Maximum annual emissions for both boilers #7 and #8, combusting natural gas and distillate oil. [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.
18	PM-10 (Total) <= 11.8 tons/yr. Maximum annual emissions for both boilers #7 and #8, combusting natural gas and distillate oil. [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.
19	PM-2.5 (Total) <= 11.8 tons/yr. Maximum annual emissions for both boilers #7 and #8, combusting natural gas and distillate oil. [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.
20	Arsenic Emissions <= 0.000853 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Beryllium Emissions <= 0.000566 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Cadmium Emissions <= 0.00115 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Cobalt Emissions <= 0.0000448 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	Dimethylbenz(a)anthracene (7,12-) <= 0.00000854 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Formaldehyde <= 0.122 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Manganese Emissions <= 0.00132 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	Naphthalene <= 0.00185 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	Nickel Emissions <= 0.00168 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
29	Polycyclic organic matter <= 0.00445 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
30	The permittee at all times must operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. (MACT Subpart JJJJJ - Subpart JJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources). [40 CFR 63.11205(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall keep records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment. The permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation. The permittee shall maintain all records in accordance with 40 CFR 63.11225(d). [40 CFR 63.11225(c)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	<p>Prepare a biennial or 5-year, as applicable, compliance certification report by March 1 of the applicable year and submit to the delegated authority upon request, a compliance certification report for the previous calendar years containing the following information: (1) Company name and address.(2) Statement by responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR Part 63, Subpart JJJJJJ. The notification must include the following certification(s) of compliance and signed by a responsible official: (i) "This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler." (ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit." (3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken. (MACT Subpart JJJJJJ - Subpart JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources). [40 CFR 63.11225(b)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency.</p> <p>The permittee shall keep the records prescribed at 40 CFR 63.11225(b)(1) through (b)(2). [40 CFR 63.11225(b)]</p>	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
32	The permittee must provide notice of the date upon which the permittee switched fuels, made the physical change, or took a permit limit that may result in the applicability of a different subcategory or switch out of 40 CFR Part 63, Subpart JJJJJ due to a switch to 100 percent natural gas. The notice must be provided within 30 days of the change. (MACT Subpart JJJJJJ - Subpart JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources). [40 CFR 63.11225(g)]	None.	None.	<p>Submit notification: Upon occurrence of event. Submit a written notification to the Administrator, EPA Region 2. The notification must identify:</p> <p>(1) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels, were physically changed, or took a permit limit, and the date of the notice.</p> <p>(2) The date upon which the fuel switch, physical change, or permit limit occurred. [40 CFR 63.11225(g)]</p>

BOP190002

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

Emission Unit: U313 B39-TWO (2) BOILERS (#7 & #8) FIRING NATURAL GAS OR NO. 2 FUEL OIL, SUBJECT TO AREA MACT JJJJJJ

Operating Scenario: OS1 BOILER 7, 89.8 MM Btu/hr, firing Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 14.84 lb/hr based on rated heat input of source. This applies at all times, including startup, shutdown and fuel transfer. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
2	NOx (Total) \leq 0.12 lb/MMBTU. The owner or operator of an industrial, commercial, institutional boiler or other indirect heat exchanger with a maximum gross heat input rate of at least 25 million but less than 100 million BTUs per hour shall cause the boiler or other indirect heat exchanger to emit NOx at a rate no greater than the applicable maximum allowable NOx emission rate for dual fuel using fuel oil and/or natural gas combustion specified in Table 9, effective May 1, 2012. NOx RACT emission limit applies during normal (steady state), start-up, shutdown and fuel transfer operations. [N.J.A.C. 7:27-19.7(i)]	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. Any NOx testing pursuant to N.J.A.C. 7:27-19.15 shall be conducted concurrently with CO testing. The applicable NOx emission limits in this subchapter 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. See Stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
3	Maximum Gross Heat Input \leq 89.8 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by gas flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
4	Natural Gas Usage \leq 523.7 MMft ³ /yr Annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month 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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	CO <= 9.7 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 8.9 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	VOC (Total) <= 3.2064 lb/hr which include Formaldehyde emissions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	SO2 <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	TSP <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	PM-10 (Total) <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-2.5 (Total) <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Arsenic Emissions <= 0.0000171 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Beryllium Emissions <= 0.0000103 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Cadmium Emissions <= 0.0000941 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Cobalt Emissions <= 0.00000718 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Dimethylbenz(a)anthracene (7,12-) <= 0.00000137 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Formaldehyde <= 0.00641 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Manganese Emissions <= 0.0000325 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Naphthalene <= 0.0000522 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Nickel Emissions <= 0.00018 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Emission Unit: U313 B39-TWO (2) BOILERS (#7 & #8) FIRING NATURAL GAS OR NO. 2 FUEL OIL, SUBJECT TO AREA MACT JJJJJJ

Operating Scenario: OS2 BOILER 7, 89.8 MMBTU/hr., firing #2 Fuel Oil

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 14.84 lb/hr based on rated heat input of source. This applies at all times, including startup, shutdown and fuel transfer. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
2	NOx (Total) \leq 0.12 lb/MMBTU. The owner or operator of an industrial, commercial, institutional boiler or other indirect heat exchanger with a maximum gross heat input rate of at least 25 million but less than 100 million BTUs per hour shall cause the boiler or other indirect heat exchanger to emit NOx at a rate no greater than the applicable maximum allowable NOx emission rate for dual fuel using fuel oil and/or natural gas combustion specified in Table 9, effective May 1, 2012. NOx RACT emission limit applies during normal (steady state), start-up, shutdown and fuel transfer operations. [N.J.A.C. 7:27-19.7(i)]	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. Any NOx testing pursuant to N.J.A.C. 7:27-19.15 shall be conducted concurrently with CO testing. The applicable NOx emission limits in this subchapter 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. See Stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
3	Maximum Gross Heat Input \leq 89.8 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by gas flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel Oil Usage \leq 1,299 Mgals /yr #2 fuel oil. Annual fuel usage limit. From BOP100001. [N.J.A.C. 7:27-22.16(a)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Fuel Oil Usage: 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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	CO <= 3.21 lb/hr maximum emission rate from BOP100001. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 10.78 lb/hr maximum emission rate from BOP100001. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	VOC (Total) <= 0.1696 lb/hr which include Formaldehyde emissions, maximum emission rate from BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	SO2 <= 18.25 lb/hr maximum emission rate from BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 4.05 lb/hr maximum emission rate from BOP100001. [N.J.A.C. 7:27-22.16(a)]	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 stack testing requirements U313/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 stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
10	PM-10 (Total) <= 4.05 lb/hr maximum emission rate from BOP100001. [N.J.A.C. 7:27-22.16(a)]	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 stack testing requirements U313/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 stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	Arsenic Emissions <= 0.0004 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Beryllium Emissions <= 0.0003 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Cadmium Emissions <= 0.0003 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Formaldehyde <= 0.0396 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Manganese Emissions <= 0.0005 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Naphthalene <= 0.000733 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Nickel Emissions <= 0.0003 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Polycyclic organic matter <= 0.00214 lb/hr. [N.J.A.C. 7:27-22.16(a)]			

BOP190002

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

Emission Unit: U313 B39-TWO (2) BOILERS (#7 & #8) FIRING NATURAL GAS OR NO. 2 FUEL OIL, SUBJECT TO AREA MACT JJJJJJ

Operating Scenario: OS3 BOILER 8, 96.8 MM Btu/hr, firing Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 14.49 lb/hr based on rated heat input of source. This applies at all times, including startup, shutdown and fuel transfer. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
2	NOx (Total) \leq 0.12 lb/MMBTU. The owner or operator of an industrial, commercial, institutional boiler or other indirect heat exchanger with a maximum gross heat input rate of at least 25 million but less than 100 million BTUs per hour shall cause the boiler or other indirect heat exchanger to emit NOx at a rate no greater than the applicable maximum allowable NOx emission rate for dual fuel using fuel oil and/or natural gas combustion specified in Table 9, effective May 1, 2012. NOx RACT emission limit applies during normal (steady state), start-up, shutdown and fuel transfer operations. [N.J.A.C. 7:27-19.7(i)]	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. Any NOx testing pursuant to N.J.A.C. 7:27-19.15 shall be conducted concurrently with CO testing. The applicable NOx emission limits in this subchapter 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. See Stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
3	Maximum Gross Heat Input \leq 96.8 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by gas flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
4	Natural Gas Usage \leq 544 MMft ³ /yr Annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month 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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	CO <= 9.1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See Stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 9.3 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See Stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	VOC (Total) <= 2.207 lb/hr which include Formaldehyde emissions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	SO2 <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	TSP <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	PM-10 (Total) <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-2.5 (Total) <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Arsenic Emissions <= 0.0000184 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Beryllium Emissions <= 0.00000111 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Cadmium Emissions <= 0.000101 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Cobalt Emissions <= 0.00000774 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Dimethylbenz(a)anthracene (7,12-) <= 0.00000148 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Formaldehyde <= 0.00691 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Manganese Emissions <= 0.000035 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Naphthalene <= 0.0000562 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Nickel Emissions <= 0.000194 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Emission Unit: U313 B39-TWO (2) BOILERS (#7 & #8) FIRING NATURAL GAS OR NO. 2 FUEL OIL, SUBJECT TO AREA MACT JJJJJJ

Operating Scenario: OS4 BOILER 8, 96.8 MMBTU/hr., firing #2 Fuel Oil

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 14.49 lb/hr from the table at N.J.A.C. 7:27-4.2(a), based on rated heat input of source. This applies at all times, including startup, shutdown and fuel transfer. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
2	NOx (Total) \leq 0.12 lb/MMBTU. The owner or operator of an industrial, commercial, institutional boiler or other indirect heat exchanger with a maximum gross heat input rate of at least 25 million but less than 100 million BTUs per hour shall cause the boiler or other indirect heat exchanger to emit NOx at a rate no greater than the applicable maximum allowable NOx emission rate for dual fuel using fuel oil and/or natural gas combustion specified in Table 9, effective May 1, 2012. NOx RACT emission limit applies during normal (steady state), start-up, shutdown and fuel transfer operations. [N.J.A.C. 7:27-19.7(i)]	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. Any NOx testing pursuant to N.J.A.C. 7:27-19.15 shall be conducted concurrently with CO testing. The applicable NOx emission limits in this subchapter 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. See Stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
3	Maximum Gross Heat Input \leq 96.8 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by gas flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel Oil Usage \leq 1,399 Mgals /yr #2 fuel oil. Annual fuel usage limit. From BOP100001. [N.J.A.C. 7:27-22.16(a)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Fuel Oil Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	CO <= 3.46 lb/hr maximum emission rate from BOP100001. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 11.62 lb/hr maximum emission rate from BOP100001. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	VOC (Total) <= 0.147 lb/hr which include Formaldehyde emissions, maximum emission rate from BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	SO2 <= 0.15 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 4.36 lb/hr maximum emission rate from BOP100001. [N.J.A.C. 7:27-22.16(a)]	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 stack testing requirements U313/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 stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
10	PM-10 (Total) <= 4.36 lb/hr maximum emission rate from BOP100001. [N.J.A.C. 7:27-22.16(a)]	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 stack testing requirements U313/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 stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]	Submit a stack test report: As per the approved schedule. See stack testing requirements U313/OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	PM-2.5 (Total) <= 4.36 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Emission Unit: U314 B39-BOILER #9 FIRING NATURAL GAS AND ULSD (EMERGENCY USE ONLY), SUBJECT TO NSPS SUBPART Dc

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: *NSPS 40 CFR 60 Subpart A - General Provisions *NSPS 40 CFR 60 Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [None]	None.	None.	None.
2	<p>RENEWAL STACK TESTING SUMMARY:</p> <p>The permittee shall conduct a stack test no later than every five years (see General Provisions) from the last stack test using an approved protocol to demonstrate compliance with emission limits for CO, NOx and VOC as specified in the compliance plan for OS1.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under the applicable operating 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: 09-01, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. 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: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and [N.J.A.C. 7:27-22.18(h)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
4	Particulate Emissions <= 6 lb/hr limit from the combustion of fuel based on the rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
5	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [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.
6	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year.</p> <p>If the source is not operated during the quarter of the calendar year in which the annual adjustment is to be performed, the owner or operator shall perform the adjustment within seven days after the boiler or other indirect heat exchanger is next operated.</p> <p>The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]</p>	<p>Monitored by periodic emission monitoring annually.</p> <p>The owner or operator shall perform the adjustment of the combustion process in accordance with the combustion adjustment monitoring procedures specified in NJDEP Technical Manual 1005 and the procedure at N.J.A.C. 7:27-19.16(a) as follows:</p> <ol style="list-style-type: none"> 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx and CO in ppmvd and O2 in percent, before and after the adjustment is made; and 6. Convert the measured emission values of NOx, CO and O2 concentrations to lb/MMBTU according to the following formula: $\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000$, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: $(20.9\%) / (20.9\% - \text{O2 measured})$, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)] 	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment:</p> <ol style="list-style-type: none"> 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. <p>The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]</p>	<p>Submit a report: Annually.</p> <p>The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed.</p> <p>The report shall be submitted electronically to: www.njdeponline.com. Instructions for submitting this report online are specified at: http://www.nj.gov/dep/aqpp/adjustment.htm. [N.J.A.C. 7:27-19.16(d)] and. [N.J.A.C. 7:27-19.16(c)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
9	<p>The permittee shall use distillate fuel oil only if:</p> <p>1) The permittee is practicably not able to obtain a sufficient amount of natural gas;</p> <p>2) The permittee is not able to obtain natural gas due to circumstances beyond the control of the permittee, such as a natural gas curtailment; and</p> <p>3) The combustion source ceases using fuel oil in place of natural gas and resumes using natural gas as soon as a sufficient supply of natural gas becomes practicably available. [N.J.A.C. 7:27-22.16(a)], [N.J.A.C. 7:27-19.25(a)] and [N.J.A.C. 7:27-19.25(c)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event Maintain records that include the following: For curtailment periods:</p> <p>1) information sufficient to identify each combustion source for which the owner or operator claims an exemption, including a brief description of the source, its location, its permit number and other identifying numbers, and any other information necessary to distinguish it from other equipment owned and operated by the facility;</p> <p>2) a statement that the owner or operator is not practicably able to obtain a sufficient supply of natural gas;</p> <p>3) the date and time at which the owner or operator first became practicably unable to obtain natural gas; and</p> <p>4) a description of the circumstances causing the owner or operator's inability to obtain natural gas.</p> <p>If no fuel oil was combusted during the year, maintain an on-site certification in accordance with N.J.A.C.7:27-1.39 stating that no fuel oil was combusted during this period. N.J.A.C. 7:27-22.16(o)], [N.J.A.C. 7:27-19.25(c)] and. [N.J.A.C. 7:27-19.25(d)]</p>	<p>Submit a report: Annually if fuel oil or other liquid fuel was combusted under the N.J.A.C.7:27-19.25 exemption.</p> <p>Submit the report by March 1 of each year for the preceding calendar year to the Regional Enforcement Office.</p> <p>The annual report shall include items 1) through 4) specified under the Recordkeeping Requirements section. The annual report shall also include any violations which occurred during the previous year. If no violations occurred during the year, the owner or operator shall provide certification that no violations occurred and that the records are maintained at the facility. [N.J.A.C. 7:27-19.19(g)(2)] and. [N.J.A.C. 7:27-19.25(d)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Boiler fuel limited to Natural Gas or ULSD (emergency use only). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Maximum Gross Heat Input <= 25 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
12	<p>Hours of Operation <= 48 hours.</p> <p>Periodic testing, maintenance, or operator training on liquid fuel shall not exceed a combined total of 48 hours during any calendar year to qualify as a gas-fired boiler as defined in MACT Subpart JJJJJ, 40 CFR 63.11237.</p> <p>The owner or operator shall not fire fuel oil for testing, maintenance, or operator training on days when the Department forecasts air quality anywhere in New Jersey to be unhealthy for sensitive groups, unhealthy, or very unhealthy as shown at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast. [N.J.A.C. 7:27-22.16(a)]</p>	None.	<p>Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation while firing distillate fuel oil.</p> <p>Record the total number hours fuel oil was combusted for periodic testing, maintenance, or operator training in a calendar year. Maintain readily accessible records onsite. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	<p>This boiler shall only be operated on distillate fuel oil under these circumstances:</p> <p>1. During the performance of normal testing, maintenance, or operator training procedures (not exceeding a combined total of 48 hours during any calendar year), as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation; or</p> <p>2. During a period of time in which the supply of gaseous fuel to the boiler is restricted or halted for reasons beyond the control of the facility, such as a period of gas curtailment or supply interruption;</p> <p>The owner or operator shall stop using fuel oil in place of gas and resume using gas as soon as the circumstances described above cease. [N.J.A.C. 7:27-22.16(a)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event.</p> <p>The owner or operator shall maintain on site and record the following information:</p> <p>1. For each time the boiler is operated for an emergency:</p> <ul style="list-style-type: none"> i. Document the emergency that occurred (i.e. gas curtailment); ii. The date(s) of operation and the start up and shut down time; iii. The total number of hours that fuel oil was combusted for the emergency; iv. The name of the operator. <p>2. For each time the boiler is specifically operated for testing, maintenance, or operator training:</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, maintenance, or operator training; and iv. The name of the operator. <p>The owner or operator 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)]</p>	None.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Natural Gas Usage \leq 219 MMft ³ /yr. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. The owner or operator shall install and operate a fuel totalizer to monitor the total amount of fuel burned for any 12 consecutive months. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for any 12 consecutive months shall be calculated by the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
15	CO \leq 4.13 tons/yr based on the fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	NOx (Total) \leq 3.88 tons/yr based on the fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	VOC (Total) \leq 0.478 tons/yr which include Formaldehyde emissions, based on the fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	SO ₂ \leq 0.17 tons/hr based on the fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	TSP \leq 1.92 tons/yr based on the fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	PM-10 (Total) \leq 1.92 tons/yr based on the fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	PM-2.5 (Total) \leq 1.92 tons/yr based on the fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Arsenic compounds \leq 0.0000242 tons/yr based on the fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Cadmium compounds \leq 0.000122 tons/yr based on the fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	Cobalt compounds \leq 0.00000915 tons/yr based on the fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Dimethylbenz(a)anthracene (7,12-) \leq 0.00000174 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	Formaldehyde <= 0.00843 tons/yr based on the fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. (NSPS Subpart A - General Provisions). [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
28	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. (NSPS Subpart A - General Provisions). [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
29	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. (NSPS Subpart A - General Provisions). [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]
30	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the actual date of initial startup of an affected facility postmarked within 15 days after such date. (NSPS Subpart A - General Provisions). [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A - General Provisions). [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]
32	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A - General Provisions). [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall contain the information required in 40 CFR 60.7(b) and be postmarked by the 30th day following the end of each six-month period. The report shall be submitted to the EPA Region 2 Administrator and the appropriate Regional Enforcement Office of NJDEP and be in the format specified at 40 CFR Part 60.7(c) and 40 CFR Part 60.7(d). [40 CFR 60.7(c)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. (NSPS Subpart A - General Provisions). [40 CFR 60.7(f)]	None.	<p>Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection.</p> <p>The file shall be retained for at least two years following the dates of the record, except as prescribed in 40 CFR 60.7(f)(1) through (3).</p> <p>Sources subject to 40 CFR 70, are required to retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application, per 40 CFR 70.6(a)(3)(ii)(B).[40 CFR 60.7(f)].</p>	None.
34	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. (NSPS Subpart A - General Provisions). [40 CFR 60.11(d)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	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. (NSPS Subpart A - General Provisions). [40 CFR 60.12]	None.	None.	None.
36	The owner or operator shall notify the Administrator of the proposed replacement of components, upon triggering reconstruction as defined at 40 CFR 60.15. (NSPS Subpart A - General Provisions). [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
37	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. (NSPS Subpart A - General Provisions). [40 CFR 60.19]	None.	None.	None.
38	Sulfur Content in Fuel \leq 0.5 weight % for an affected facility that combusts oil. [40 CFR 60.42c(d)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records once per bulk fuel shipment. [40 CFR 60.44c(h)]	Sulfur Content in Fuel: Recordkeeping by fuel supplier certifications pursuant to 40 CFR Part 60.48c(f) once per bulk fuel shipment. Records of the name of the oil supplier, a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil as specified at 40 CFR 60.41c, and the sulfur content of the oil shall be maintained for at least two years. [40 CFR 60.48c(e)(11)]	Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The owner or operator shall submit fuel supplier certifications, and the owner/operator certification that the fuel supplier's certifications submitted represent all of the fuel combusted during the reporting period. [40 CFR 60.48c(e)(11)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
39	The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7. This notification shall include information specified in 40 CFR 60.48c(a)1 through (a)4. (NSPS Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units). [40 CFR 60.48c(a)]	None.	None.	Submit a report: Upon occurrence of event. [40 CFR 60.48c(a)]
40	The owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f), fuels not subject to an emission standard (excluding opacity), or a mixture of these fuels shall record and maintain records of the amount of each fuel combusted during each calendar month. (NSPS Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units). [40 CFR 60.48c(g)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [40 CFR 60.48c(g)(2)]	None.

BOP190002

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

Emission Unit: U314 B39-BOILER #9 FIRING NATURAL GAS AND ULSD (EMERGENCY USE ONLY), SUBJECT TO NSPS SUBPART Dc

Operating Scenario: OS1 BOILER #4, 25 MM Btu/hr, Firing Natural Gas (During Emergency ULSD Firing if NG is not sufficiently available)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>NOx (Total) \leq 0.05 lb/MMBTU.</p> <p>The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour, but less than 50 million BTU per hour, burning natural gas only shall cause the boiler or other indirect heat exchanger to emit NOx at a rate no greater than the applicable maximum allowable NOx emission rate specified here. [N.J.A.C. 7:27-19.7(i)1]</p>	<p>NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs and performed in compliance with N.J.A.C.7:27-19.17. In accordance with N.J.A.C. 7:27-19.15(a)2, any NOx testing conducted pursuant to N.J.A.C. 7:27-19 shall be conducted concurrently with CO testing.</p> <p>The applicable NOx emission limits 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 or the permit limit for CO, whichever is more stringent, is also met. See Stack Testing requirements. [N.J.A.C. 7:27-19.15(a)2]</p>	<p>NOx (Total): Recordkeeping by stack test results once initially. See Stack Testing requirements. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See Stack Testing requirements. [N.J.A.C. 7:27-22.16(o)]</p>
2	<p>CO \leq 0.05 lb/MMBTU while combusting natural gas. [N.J.A.C. 7:27-22.16(a)]</p>	<p>CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See Stack Testing requirements. [N.J.A.C. 7:27-22.16(o)]</p>	<p>CO: Recordkeeping by stack test results once initially. See Stack Testing requirements. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See Stack Testing requirements. [N.J.A.C. 7:27-22.16(o)]</p>
3	<p>NOx (Total) \leq 0.035 lb/MMBTU while combusting natural gas. [N.J.A.C. 7:27-22.16(a)]</p>	<p>NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See Stack Testing requirements. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (Total): Recordkeeping by stack test results once initially. See Stack Testing requirements. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See Stack Testing requirements. [N.J.A.C. 7:27-22.16(o)]</p>
4	<p>VOC (Total) \leq 0.005 lb/MMBTU while combusting natural gas. [N.J.A.C. 7:27-22.16(a)]</p>	<p>VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See Stack Testing requirements. [N.J.A.C. 7:27-22.16(o)]</p>	<p>VOC (Total): Recordkeeping by stack test results once initially. See Stack Testing requirements. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See Stack Testing requirements. [N.J.A.C. 7:27-22.16(o)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	CO <= 0.94 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See stack testing requirements. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. See stack testing requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 0.88 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See stack testing requirements. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. See stack testing requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements. [N.J.A.C. 7:27-22.16(o)]
7	VOC (Total) <= 0.112 lb/hr which include Formaldehyde emissions. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See stack testing requirements. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. See stack testing requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements. [N.J.A.C. 7:27-22.16(o)]
8	SO2 <= 0.04 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 0.44 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 0.44 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) <= 0.44 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Arsenic compounds <= 0.000005 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Cadmium compounds <= 0.0000275 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Cobalt compounds <= 0.0000021 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Dimethylbenz(a)anthracene (7,12-) <= 4.0E-7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Formaldehyde <= 0.0019 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): PB Nutclif Master, LLC

Facility ID (AIMS): 07167

Street 340 KINGSLAND ST
Address: NUTLEY, NJ 07110-1199

Mailing 310 KINGSLAND ST
Address: NUTLEY, NJ 07110-1199

County: Essex
Location Site is located in towns of Nutley (Essex
Description: County) and Clifton (Passaic County)

State Plane Coordinates:	
X-Coordinate:	729,078
Y-Coordinate:	587,396
Units:	Feet
Datum:	NAD83
Source Org.:	Submittal Document
Source Type:	Hard Copy Map

Industry:	
Primary SIC:	2834
Secondary SIC:	2833
NAICS:	531210

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: PB Nutclif Master LLC

Org. Type: LLC

Name: Jonathan F. Hoff

NJ EIN: 00118500004

Title: Sr. Vice President-Management Services

Phone: (973) 562-9580 x

Mailing Address: 310 Kingsland Street

Fax: (973) 562-9586 x

Nutley, NJ 07110

Other: () - x

Type:

Email: Jon.hoff@prismpartners.net

Contact Type: On-Site Manager

Organization: PB Nutclif Master LLC

Org. Type: LLC

Name: Jonathan F. Hoff

NJ EIN: 00118500004

Title: Sr. Vice President-Management Services

Phone: (973) 562-9580 x

Mailing Address: 310 Kingsland Street

Fax: (973) 562-9586 x

Nutley, NJ 07110

Other: () - x

Type:

Email: Jon.hoff@prismpartners.net

Contact Type: Owner (Current Primary)

Organization: PB Nutclif Master LLC

Org. Type: LLC

Name: Jonathan F. Hoff

NJ EIN: 00118500004

Title: Sr. Vice President-Management Services

Phone: (973) 562-9580 x

Mailing Address: 310 Kingsland Street

Fax: (973) 562-9586 x

Nutley, NJ 07110

Other: () - x

Type:

Email: Jon.hoff@prismpartners.net

PB NUTCLIF MASTER, LLC (07167)
BOP190002

Date: 7/26/2022

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Responsible Official

Organization: PB Nutclif Master LLC

Org. Type: LLC

Name: Jonathan F. Hoff

NJ EIN: 00118500004

Title: Sr. Vice President-Management Services

Phone: (973) 562-9580 x

Mailing 310 Kingsland Street

Fax: (973) 562-9586 x

Address: Nutley, NJ 07110

Other: () - x

Type:

Email: Jon.hoff@prismpartners.net

PB NUTCLIF MASTER, LLC (07167)
BOP190002

Date: 07/26/2022

New Jersey Department of Environmental Protection
Non-Source Fugitive Emissions

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG3	Equipment leaks in fuel combustion equipment	Site wide	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.00000000	1.000
FG4	Equipment leaks utility/fuel distribution	Site wide	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	1.000
Total			2.000	1.000	1.000	1.000	1.000	1.000	0.000	0.00000000	2.000

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)
IS2	Cooling towers <50 lb/hr dry throughput	Other Equipment	Site wide	0.000	0.000	0.000	0.000	12.810	12.810	0.000	0.00000000	0.000
IS4	Tanks	Storage Vessel	Site wide	0.000	0.000	0.000	0.000			0.000	0.00000000	0.000
IS5	Steam Venting <50 lb/hr	Other Equipment	B-39	0.600	0.000	0.000	0.000			0.000	0.00000000	0.000
IS11	Five USTs #2 Oil Storage Tanks >10,000 gallons	Storage Vessel	B-39 and B102	0.000	0.000	0.000						
IS14	Natural Gas Fired Space Heat Boiler	Fuel Combustion Equipment (Other)	B-119 and 116	0.006	0.100	0.084	0.001	0.008	0.008	0.000	0.00000000	0.004
IS15	Two Diesel Fired Emergency Generators <1 MMBTU/hr	Emergency Generator	B52	0.080	1.030	0.220	0.070	0.070	0.070			
Total				0.686	1.130	0.304	0.071	12.888	12.888	0.000	0.00000000	0.004

BOP190002

**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
E1006	A-3406	EMERGENCY DIESEL GENERATOR B-76	Emergency Generator	104348		No	10/1/1991	
E1011	ONAN-CUM 350	EMERGENCY DIESEL GENERATOR PORTABLE	Emergency Generator	1980223		No	1/1/1998	
E1016	B77-BL586	SPACE HEATER B-77, 2.22 MMBtu/hr	Boiler	1980224		No	11/18/2007	
E1022	BHH-65	BOILER #7 B-39, 89.8 MMBtu/hr	Boiler	107835	1/1/1954	No	2/1/1996	
E1023	BHH-105	BOILER #8 B-39, 96.8 MMBtu/hr	Boiler	107834	1/1/1956	No	4/1/1994	
E1024	BHH#4	BOILER #4 B-39, 25 MMBtu/hr	Boiler	BOP190001		No		
E1028	DB#1	DB#1- Forney Duct Burner	Duct Burner	PCP020012	3/1/1998	No		
E1032	DB#3	DB#3- Forney Duct Burner	Duct Burner	PCP020012	3/1/1998	No		
E9015	GT#1	GT#1- Solar Taurus 60 Gas Turbine	Combustion Turbine	PCP020012	1/1/2004	No		
E9016	GT#3	GT#3- Solar Taurus 60 Gas Turbine	Combustion Turbine	PCP020012	1/1/2004	No		
E9018	JW6H-UF30	DIESEL FIRE PUMP	Emergency Fire Pump	1980216	7/28/2004	No	1/1/1998	
E9019	E9019	Em-Generator B-39	Emergency Generator	GEN050001		No		

07167 PB NUTCLIF MASTER, LLC BOP190002 E1011 (Emergency Generator)
Print Date: 7/26/2022

Make:	<input type="text" value="CUMMINS"/>		
Manufacturer:	<input type="text" value="ONAN"/>		
Model:	<input type="text" value="350 DFCC"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="3.38"/>		
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 type="radio"/> Yes <input checked="" type="radio"/> No
Comments:			

07167 PB NUTCLIF MASTER, LLC BOP190002 E1016 (Boiler)
Print Date: 7/26/2022

Make:	<input type="text" value="Weil-McClain"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text" value="BL-586-S-W"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="2.22"/>
Boiler Type:	<input type="text" value="Package"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Water Only"/>
Steam Output (lb/hr):	<input type="text"/>
Fuel Firing Method:	<input type="text"/>
Description (if other):	<input type="text"/>
Draft Type:	<input type="text"/>
Heat Exchange Type:	<input type="text" value="Indirect"/>

Is the boiler using? (check all that apply):

☐ Low NOx Burner:

☐ Staged Air Combustion:

☐ Flue Gas Recirculation (FGR):

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

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

Comments:

07167 PB NUTCLIF MASTER, LLC BOP190002 E1006 (Emergency Generator)
Print Date: 7/26/2022

Make:	<input type="text" value="CATERPILLAR"/>		
Manufacturer:	<input type="text"/>		
Model:	<input type="text" value="R3406TA"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="3.65"/>		
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 type="radio"/> Yes <input checked="" type="radio"/> No
Comments:			

07167 PB NUTCLIF MASTER, LLC BOP190002 E1022 (Boiler)
Print Date: 7/26/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="89.90"/>
Boiler Type:	<input type="text" value="Package"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text"/>
Fuel Firing Method:	<input type="text" value="Wall-fired or cross-fired"/>
Description (if other):	<input type="text"/>
Draft Type:	<input type="text" value="Forced"/>
Heat Exchange Type:	<input type="text" value="Indirect"/>

Is the boiler using? (check all that apply):

Low NOx Burner: ☒ Type:

Staged Air Combustion: ☐

Flue Gas Recirculation (FGR): ☐ Amount (%):

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

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

Comments:

07167 PB NUTCLIF MASTER, LLC BOP190002 E1023 (Boiler)
Print Date: 7/26/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="96.80"/>
Boiler Type:	<input type="text" value="Package"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text"/>
Fuel Firing Method:	<input type="text" value="Wall-fired or cross-fired"/>
Description (if other):	<input type="text"/>
Draft Type:	<input type="text" value="Forced"/>
Heat Exchange Type:	<input type="text" value="Indirect"/>

Is the boiler using? (check all that apply):

Low NOx Burner: ☒ Type:

Staged Air Combustion: ☐

Flue Gas Recirculation (FGR): ☐ Amount (%):

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

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

Comments:

07167 PB NUTCLIF MASTER, LLC BOP190002 E1024 (Boiler)
Print Date: 7/26/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Cleaver-Brooks"/>
Model:	<input type="text" value="FLX-2500"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="25.00"/>
Boiler Type:	<input type="text" value="Package"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text"/>
Fuel Firing Method:	<input type="text" value="Wall-fired or cross-fired"/>
Description (if other):	<input type="text"/>
Draft Type:	<input type="text"/>
Heat Exchange Type:	<input type="text" value="Indirect"/>

Is the boiler using? (check all that apply):

☒ Low NOx Burner:

☐ Staged Air Combustion:

☐ Flue Gas Recirculation (FGR):

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

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

Comments:

07167 PB NUTCLIF MASTER, LLC BOP190002 E1028 (Duct Burner)
Print Date: 7/26/2022

Make:	
Manufacturer:	Forney Corporation
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	44.00
Equipment Type Description:	Supplemental Fired Duct Burner

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:

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

07167 PB NUTCLIF MASTER, LLC BOP190002 E1032 (Duct Burner)
Print Date: 7/26/2022

Make:

Manufacturer:

Forney Corporation

Model:

Maximum rated Gross Heat
Input (MMBtu/hr-HHV):

44.00

Equipment Type Description:

Supplemental Fired Duct Burner

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

☒ Yes
☐ No

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

☒ Yes
☐ No

Comments:

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

07167 PB NUTCLIF MASTER, LLC BOP190002 E9015 (Combustion Turbine)
Print Date: 7/26/2022

Make:			
Manufacturer:	Solar Turbines Inc.		
Model:	Taurus 60		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	74.00		
Type of Turbine:	Industrial		
Type of Cycle:	Combined-Cycle	Description:	
Industrial Application:	Other	Description:	Combined Heat &
Power Output:	4,976.00	Units:	Kilowatts
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input checked="" type="checkbox"/>		
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio:	
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	
Other:	<input type="checkbox"/>	Description:	
Is the turbine Equipped with a Duct Burner?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	No Steam or Water Injection. SoLoNOx dry low NOx cumbustor		

07167 PB NUTCLIF MASTER, LLC BOP190002 E9016 (Combustion Turbine)
Print Date: 7/26/2022

Make:			
Manufacturer:	Solar Turbines Inc.		
Model:	Taurus 60		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	74.00		
Type of Turbine:	Industrial		
Type of Cycle:	Combined-Cycle	Description:	
Industrial Application:	Other	Description:	Combined Heat &
Power Output:	4,976.00	Units:	Kilowatts
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input checked="" type="checkbox"/>		
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio:	
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	
Other:	<input type="checkbox"/>	Description:	
Is the turbine Equipped with a Duct Burner?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Comments:	No Steam or Water Injection. SoLoNOx dry low NOx cumbustor		

07167 PB NUTCLIF MASTER, LLC BOP190002 E9018 (Emergency Fire Pump)
Print Date: 7/26/2022

Make:	<input type="text" value="Fire Pump"/>		
Manufacturer:	<input type="text" value="John Deere"/>		
Model:	<input type="text" value="JD FP-06WA"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="1.98"/>		
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 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="BHP: 265"/> <input type="text" value="Comp Ratio: 16.5:1"/> <input type="text" value="Ignition Type: Compression"/> <input type="text" value="RPM: 1760"/> <input type="text" value="Exhaust Temp.: 840"/> <input type="text" value="Air to Fuel Ratio: 26.31:1"/> <input type="text" value="Engine using turbocharger: Yes"/> <input type="text" value="Engine using aftercooler: Yes"/> <input type="text" value="Type: Lean Burn"/> <input type="text" value="Attached Diagram: No"/>		

07167 PB NUTCLIF MASTER, LLC BOP190002 E9019 (Emergency Generator)
Print Date: 7/26/2022

Make:	<input type="text" value="ONAN"/>		
Manufacturer:	<input type="text" value="ONAN"/>		
Model:	<input type="text" value="800DFHB"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="8.01"/>		
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 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:			

PB NUTCLIF MASTER, LLC (07167)
BOP190002

Date: 7/26/2022

New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand- Fathered	Last Mod. (Since 1968)	CD Set ID
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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.		
PT213	EMER. GEN	B39 EMER. GEN - U310	Round	8	36	420	900.0	70.0	924.0		0.0	6,603.0	Up	
PT217	EMER. GEN	B76 EMER. GEN. - U310	Round	6	12	480			1,200.0		0.0	3,240.0	Horizontal	
PT222	EMER. GEN	PORTABLE EMER. GEN. - U310	Round	6	9	1			1,200.0		0.0	3,050.0	Up	
PT224	EMER. PUMP	B61-FIRE WATER PUMP - U310	Round	5	10	180		70.0	840.0		0.0	1,404.0	Up	
PT227	B77-BOILER	B77 BOILER - U311	Round	14	18	150		500.0	500.0		3,850.0	3,850.0	Horizontal	
PT233	B39-BLR7	BOILER 7 - U313	Round	59	66	430		500.0	600.0		54,000.0	54,000.0	Up	
PT234	B39-BLR8	BOILER 8 - U313	Round	66	66	400		400.0	600.0		54,000.0	54,000.0	Up	
PT235	BBH#4	BOILER #4 B-39, 25 MMBtu/hr	Round	32	68	390	250.0	70.0	500.0	8,500.0	0.0	10,000.0	Up	
PT238	Cogen-1	Cogeneration Unit #1	Round	60	105	410	330.0	70.0	1,000.0	64,000.0	0.0	120,000.0	Up	
PT240	Cogen-2	Cogeneration Unit #2	Round	60	105	410	330.0	70.0	1,000.0	64,000.0	0.0	120,000.0	Up	

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

U 1 Cogen #1 #3 COGENERATION PLANT, 74 MM BTU/HR GAS TURBINE #1 & #3, SUBJECT TO NSPS SUBPART 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	GT#1-NG	Turbine #1 Firing Natural Gas without Duct Burner, Normal Operation	Normal - Steady State	E9015		PT238	2-01-002-01	0.0	8,760.0		0.0	65,000.0	70.0	500.0
OS2	GT#1-NG/DB	Turbine #1 and 40 MM BTU/hr Duct Burner #1 Simultaneous Operation, Firing Natural Gas, Normal Operation	Normal - Steady State	E1028		PT238	2-01-002-01	0.0	8,760.0		0.0	65,000.0	70.0	500.0
OS3	GT-#1-FO	Turbine #1 Firing Distillate Fuel Oil without Duct Burner, Normal Operation	Normal - Steady State	E9015		PT238	2-01-001-01	0.0	1,440.0		0.0	65,000.0	70.0	500.0
OS5	GT#1-DB/SSF	Turbine #1 with or without 40 MM BTU/hr Duct Burner #1, Startup, Shutdown, Fuel Transfer Periods, Firing NG or Distillate Fuel Oil	Startup	E9015		PT238	2-01-002-01	0.0	500.0		0.0	65,000.0	70.0	500.0
OS6	GT#3-NG	Turbine #3 Firing Natural Gas without Duct Burner, Normal Operation	Normal - Steady State	E9016		PT240	2-01-002-01	0.0	8,760.0		0.0	65,000.0	70.0	500.0
OS7	GT#3-NG/DB	Turbine #3 and 40 MM BTU/hr Duct Burner #3 Simultaneous Operation, Firing Natural Gas, Normal Operation	Normal - Steady State	E1032		PT240	2-01-002-01	0.0	8,760.0		0.0	65,000.0	70.0	500.0
OS8	GT#3-FO	Turbine #3 Firing Distillate Fuel Oil without Duct Burner, Normal Operation	Normal - Steady State	E9016		PT240	2-01-001-01	0.0	1,440.0		0.0	65,000.0	70.0	500.0

PB NUTCLIF MASTER, LLC (07167)
BOP190002

Date: 7/26/2022

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

U 1 Cogen #1 #3 COGENERATION PLANT, 74 MM BTU/HR GAS TURBINE #1 & #3, SUBJECT TO NSPS SUBPART 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.
OS10	GT#3-DB/SSF	Turbine #3 with or without 40 MM BTU/hr Duct Burner #3, Startup, Shutdown, Fuel Transfer Periods, Firing NG or Distillate Fuel Oil	Startup	E9016		PT240	2-01-002-01	0.0	500.0		0.0	65,000.0	70.0	500.0

U 310 3 EGs & 1 FP THREE (3) DIESEL FIRED EMERGENCY GENERATORS and ONE (1) DIESEL FIRE PUMP, SUBJECT TO AREA MACT ZZZZ

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.
OS4	EMER GEN B39	EMERGENCY GENERATOR B-39 (E9019), 8.01 MM Btu/hr	Normal - Steady State	E9019		PT213		0.0	499.0	A	0.0	3,222.0	77.0	1,200.0
OS7	EMER GEN B76	EMERGENCY GENERATOR B-76 OUT (E1006), 3.66 MM Btu/hr	Normal - Steady State	E1006		PT217		0.0	499.0	A	0.0	3,240.0	77.0	1,200.0
OS12	EMERGEN PORT	EMERGENCY GENERATOR PORTABLE (E1011), 3.38 MM Btu/hr	Normal - Steady State	E1011		PT222		0.0	499.0	A	0.0	3,050.0	77.0	1,200.0
OS14	FIRE PUMPB61	FIRE PUMP B-61 (E9018), 1.98 MM Btu/hr	Normal - Steady State	E9018		PT224		0.0	499.0	A	0.0	1,404.0	70.0	840.0

PB NUTCLIF MASTER, LLC (07167)
BOP190002

Date: 7/26/2022

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

U 311 B77 Boiler SPACE HEATER (BOILER B-77), 2.22 MMBtu/hr

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	B77 Boiler	B77 Boiler	Normal - Steady State	E1016		PT227	1-03-006-03	0.0	8,760.0	A	0.0	3,850.0	100.0	500.0

U 313 B39-Blr#7&8 B39-TWO (2) BOILERS (#7 & #8) FIRING NATURAL GAS OR NO. 2 FUEL OIL, SUBJECT TO AREA MACT JJJJJJ

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	BOILER 7 NG	BOILER 7, 89.8 MM Btu/hr, firing Natural Gas	Normal - Steady State	E1022		PT233		0.0	8,760.0	A	0.0	54,000.0	500.0	600.0
OS2	BOILER 7 FO	BOILER 7, 89.8 MMBTU/hr., firing #2 Fuel Oil	Normal - Steady State	E1022		PT233	1-02-005-02	0.0	8,760.0	A	0.0	54,000.0	400.0	600.0
OS3	BOILER 8 NG	BOILER 8, 96.8 MM Btu/hr, firing Natural Gas	Normal - Steady State	E1023		PT234		0.0	8,760.0	A	0.0	54,000.0	400.0	600.0
OS4	BOILER 8 FO	BOILER 8, 96.8 MMBTU/hr., firing #2 Fuel Oil	Normal - Steady State	E1023		PT234	1-02-005-02	0.0	8,760.0	A	0.0	54,000.0	400.0	600.0

PB NUTCLIF MASTER, LLC (07167)
BOP190002

Date: 7/26/2022

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

U 314 BHH #4 B39-BOILER #9 FIRING NATURAL GAS AND ULSD (EMERGENCY USE ONLY), SUBJECT TO NSPS SUBPART Dc

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	BHH#4-NG	BOILER #4, 25 MM Btu/hr, Firing Natural Gas (During Emergency ULSD Firing if NG is not sufficiently available)	Normal - Steady State	E1024		PT235	1-02-006-02	0.0	8,760.0					