



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

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Lt. Governor

SHAWN M. LATOURETTE

COMMISSIONER

Air Pollution Control Operating Permit Significant Modification

Permit Activity Number: BOP210001

Program Interest Number: 35742

Mailing Address	Plant Location
GLEN JASEK VP GM EASTERN INTERSTATES WILLIAMS TRANSCO PO BOX 1396 - 2800 POST OAK BLVD - L9 STE 900 HOUSTON, TX 77056	TRANSCO - COMPRESSOR STATION 505 623 Case Rd Neshanic Station Somerset County

Initial Operating Permit Approval Date: January 27, 1998

Operating Permit Approval Date: DRAFT PERMIT

Operating Permit Expiration Date: January 26, 2023

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 Vladimir Korolev at (609) 292-3108.

Approved by:

Joel Leon

Enclosure

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

Facility Name: TRANSCO - COMPRESSOR STATION 505
Program Interest Number: 35742
Permit Activity Number: BOP210001

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• CONTROL DEVICE INVENTORY• CONTROL DEVICE DETAILS• EMISSION POINT INVENTORY• EMISSION UNIT / BATCH PROCESS INVENTORY• SUBJECT ITEM GROUP INVENTORY

Section A

Facility Name: TRANSCO - COMPRESSOR STATION 505

Program Interest Number: 35742

Permit Activity Number: BOP210001

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	190	399	260	2.7	3.52	6.02	6.02	NA	20.7	
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	190	399	260	2.7	3.52	6.02	6.02	NA	20.7	94,046

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	2.05	4.08	3.42	.02	.310	.310	.310	NA	.08
Non-Source Fugitive Emissions ⁴	NA	NA	NA	NA	NA	NA	NA	NA	NA

VOC: Volatile Organic Compounds

NO_x: Nitrogen Oxides

CO: Carbon Monoxide

SO₂: Sulfur Dioxide

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

TSP: Total Suspended Particulates

Other: Any other air contaminant

regulated under the Federal CAA

PM₁₀: Particulates under 10 microns

PM_{2.5}: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO₂e: Carbon Dioxide equivalent

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

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

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

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

³ Total CO₂e emissions for the facility.

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

Section A

Facility Name: TRANSCO - COMPRESSOR STATION 505

Program Interest Number: 35742

Permit Activity Number: BOP210001

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
Acetaldehyde	0.0232
Acrolein	3.87
Benzene	0.00696
Ethylene dibromide	0.0000405
Formaldehyde	16.8
Methylnaphthalene	0.0000303
Propylene Oxide	0.0168

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

Other Air Contaminant	TPY
Ammonia	8.84
Methane	24.0

Table 5: Estimate of “Other” air contaminants emissions from Insignificant Source Operations:

Other Air Contaminant	TPY
Methane	209

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: TRANSCO - COMPRESSOR STATION 505

Program Interest Number: 35742

Permit Activity Number: BOP210001

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]

Section C

Facility Name: TRANSCO - COMPRESSOR STATION 505

Program Interest Number: 35742

Permit Activity Number: BOP210001

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: TRANSCO - COMPRESSOR STATION 505

Program Interest Number: 35742

Permit Activity Number: BOP210001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

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

Facility (FC):

FC	1
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Non-Source Fugitive Emissions (FG):

FG NJID	FG Description	
FG2	Piping Component Fugitives	7

Insignificant Sources (IS):

IS NJID	IS Description	
IS1	250 gallon diesel tank	16
IS9	Unheated Parts Washer < 6.00 sq.ft top opening area or < 100. gal capacity.	17
IS10	Natural Gas Fired Equipment (< 1MMBtu/hr)	18
IS17	Pipeline Blowdown Events	19

Groups (GR):

GR NJID	GR Designation	GR Description	
GR1	U1 + U100	Engines and turbines	20

Emission Units (U):

U NJID	U Designation	U Description	
U1	M/L 1 - 8	Reciprocating Compressor Engines 1 through 8, Ingersoll Rand 412 - KVS, each 2050 HP natural gas fired lean-burn engine.	21
U9	Aux Unit 1	9 MM Btu/hr Natural gas fired RICE with 1072 hp output with Low Emission Combustion (LEC) for emergency electrical generation	33
U10	BLR 1	3.5 MMBtu/hr Natural Gas Cyclotherm Boiler, 3.5 MMBTU/hr	40
U11	T-1	Pipeline liquids tank used to store natural gas condensate, 6000 gallons	46
U12	AUX-02	Emergency Generator	47
U13	Tank-01	Natural Gas Liquids Condensate Tank	56
U100	Turbines	Natural Gas Fired Combustion Turbines #1 and #2	57

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 200001

Description of Modifications: Compressor Station 505 will be adding two (2) natural gas-fired combustion turbines (E1001 & E1002, U100 OS1-OS8), one (1) natural gas-fired emergency generator (E12, U12 OS1), one (1) natural gas condensate liquids storage tank (E13, U13 OS1), and other ancillary equipment.

Upon start-up of the two (2) combustion turbines, Compressor Station 505's eight (8) existing Ingersoll Rand 412-KVS reciprocating compressor engines (identified E1 - E8, U1 OS1 - OS8) will be shut-down and removed from service. A separate minor modification application to remove the engines from the Title V permit will be submitted to the Department once the combustion turbines are operating.

BOP210001

**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.

BOP210001

**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.

BOP210001

**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]

BOP210001

**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]

BOP210001

**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.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Stack testing after permit expiration: 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.

BOP210001

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

Subject Item: FG2 Piping Component Fugitives

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	At all times, including periods of startup, shutdown and malfunction, the permittee shall maintain and operate the fugitive emission components including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions of methane and VOC. [40 CFR 60.5370a(b)]	Other: 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 operating and maintenance procedures, and inspection of the source.[40 CFR 60.5370a(b)].	None.	None.
2	The permittee shall develop an emissions monitoring plan that covers the collection of fugitive emissions components at compressor stations within each company-defined area. [40 CFR 60.5397a(b)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>Fugitive emissions monitoring plans shall include the following at a minimum:</p> <p>(1) Frequency for conducting surveys. Conduct at least as frequently as required by 40 CFR 60.5397a(f)(2) and (g)(2).</p> <p>(2) Technique for determining fugitive emissions of VOC and methane (i.e., Method 21 at 40 CFR 60, appendix A-7, or optical gas imaging).</p> <p>(3) Manufacturer and model number of fugitive emissions detection equipment to be used.</p> <p>(4) Procedures and timeframes for identifying and repairing fugitive emissions components from which fugitive emissions are detected, including timeframes for fugitive emission components that are unsafe to repair. The repair schedule shall meet the requirements of 40 CFR 60.5397a(h) at a minimum.</p> <p>(5) Procedures and timeframes for verifying fugitive emission component repairs.</p> <p>(6) Records that will be kept and the length of time records will be kept. [40 CFR 60.5397a(c)]</p>	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>If optical gas imaging (OGI) is used, the fugitive emissions monitoring plan shall also include:</p> <p>(i) Verification that the OGI equipment meets these specifications:</p> <p>(A) The OGI equipment must be capable of imaging gases in the spectral range for the compound of highest concentration in the potential fugitive emissions.</p> <p>(B) The OGI equipment must be capable of imaging a gas that is half methane, half propane at a concentration of 10,000 ppmv at a flow rate of ≤ 60g/hr from a 0.25-inch diameter orifice.</p> <p>(ii) Procedure for a daily verification check.</p> <p>(iii) Procedure for determining the operator's maximum viewing distance from the equipment and how the operator will ensure that this distance is maintained.</p> <p>(iv) Procedure for determining maximum wind speed during which monitoring can be performed and how the operator will ensure monitoring occurs only at lower wind speeds.</p> <p>(v) Procedures for conducting surveys, including:</p> <p>(A) How the operator will ensure an adequate thermal background is present.</p> <p>(B) How the operator will deal with adverse monitoring conditions, such as wind.</p> <p>(C) How the operator will deal with interferences (e.g., steam).</p> <p>(vi) Training and experience needed prior to performing surveys.</p> <p>(vii) Procedures for calibration and maintenance. At a minimum, procedures must comply with manufacturer's recommendations. [40 CFR 60.5397a(c)(7)]</p>	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>If using Method 21 of appendix A-7 of 40 CFR 60, the fugitive emissions monitoring plan shall also include:</p> <p>(i) Verification that the monitoring equipment meets the requirements specified in Section 6.0 of Method 21 at 40 CFR 60, appendix A-7. For purposes of instrument capability, the fugitive emissions definition shall be 500 ppm or greater methane using a FID-based instrument. If using an analyzer other than a FID-based instrument, develop a site-specific fugitive emission definition that would be equivalent to 500 ppm methane using a FID-based instrument (e.g., 10.6 eV PID with a specified isobutylene concentration as the fugitive emission definition would provide equivalent response to the compound of interest).</p> <p>(ii) Procedures for conducting surveys. At a minimum, the procedures shall ensure that the surveys comply with the relevant sections of Method 21 at 40 CFR 60, appendix A-7, including Section 8.3.1.</p> <p>(iii) Procedures for Calibration. See "PROCEDURES FOR CALIBRATION" below.</p> <p>[40 CFR 60.5397a(c)(8)]</p>	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>PROCEDURES FOR CALIBRATION. The instrument must be calibrated daily before use pursuant to Method 21 at 40 CFR60, appendix A-7 (M21, A-7). At a minimum, precision tests must be conducted pursuant to M21, A-7, Section 8.1.2, and a calibration drift assessment conducted at the end of each monitoring day, using the same calibration gas that was used to calibrate the instrument before use. Follow the procedures specified in M21, A-7, Section 10.1, but do not adjust the meter readout to correspond to the calibration gas value. If multiple scales are used, record the instrument reading for each scale used. Divide the arithmetic difference of the initial and post-test calibration response by the corresponding calibration gas value for each scale and multiply by 100 to express the calibration drift as a percentage.</p> <p>For a negative drift of more than 10 percent, all equipment with instrument readings between the fugitive emission definition multiplied by (100 minus the percent of negative drift/divided by 100) and the fugitive emission definition that was monitored since the last calibration must be re-monitored.</p> <p>For a positive drift of more than 10 percent from the initial calibration value, at the owner/operator's discretion, all equipment with instrument readings above the fugitive emission definition and below the fugitive emission definition multiplied by (100 plus the percent of positive drift/divided by 100) monitored since the last calibration may be re-monitored. [40 CFR 60.5397a(c)(8)(iii)]</p>	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Each fugitive emissions monitoring plan shall include the following, at a minimum, as applicable: (1) Sitemap. (2) A defined observation path that ensures that all fugitive emissions components are within sight of the path. The observation path shall account for interferences. (3) If using Method 21, the plan shall also include a list of fugitive emissions components to be monitored and method for determining location of fugitive emissions components to be monitored in the field (e.g. tagging, identification on a process and instrumentation diagram, etc.). (4) The plan shall also include the written plans developed for all of the fugitive emission components designated as difficult-to-monitor in accordance with 40 CFR 60.5397a(g)(3)(i), and the written plan for fugitive emission components designated as unsafe-to monitor in accordance with 40 CFR 60.5397a(g)(3)(ii). [40 CFR 60.5397a(d)]	None.	None.	None.
8	The permittee shall conduct an initial monitoring survey within 60 days of the startup of a new compressor station for each new collection of fugitive emissions components at the new compressor station or by June 3, 2017, whichever is later. For a modified collection of fugitive components at a compressor station, the initial monitoring survey shall be conducted within 60 days of the modification or by June 3, 2017, whichever is later. [40 CFR 60.5397a(f)(2)]	Other: The permittee shall observe each fugitive emissions component, as defined in 40 CFR 60.5430a, for fugitive emissions. Fugitive emissions are defined as: Any visible emission from a fugitive emissions component observed using optical gas imaging or an instrument reading of 500 ppmv or greater using Method 21. [40 CFR 60.5397a(a)] & [40 CFR 60.5397a(e)].	Other: The permittee shall maintain records as specified at 40 CFR 60.5420a(c)(15). [40 CFR 60.5410a(j)(3)].	Submit a report: Once initially no later than 90 days after the end of the initial compliance period as determined according to 40 CFR 60.5410a. The initial annual report shall include the general facility information and certification per 40 CFR 60.5420a(b)(1) and the records of the initial monitoring survey per 40 CFR 60.5420a(b)(7)(i) through (xii). Multiple collection of fugitive emissions components at a compressor station may be included in a single report. [40 CFR 60.5410a(j)(5)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	A monitoring survey of the collection of fugitive emissions components at a compressor station within a company-defined area must be conducted at least quarterly after the initial survey. Consecutive quarterly monitoring surveys must be conducted at least 60 days apart. [40 CFR 60.5397a(g)(2)]	Monitored by periodic emission monitoring quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The permittee shall observe each fugitive emissions component at least quarterly, as defined in 40 CFR 60.5430a, for fugitive emissions of VOC. Fugitive emissions are defined as: Any visible emission from a fugitive emissions component observed using optical gas imaging or an instrument reading of 500 ppmv or greater using Method 21. [40 CFR 60.5397a(a)] & [40 CFR 60.5397a(e)]	Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The permittee shall maintain records as specified at 40 CFR 60.5420a(c)(15) for at least 5 years. [40 CFR 60.5397a(i)]	Submit a report: Annually. Annual reports shall include the general facility information and certification per 40 CFR 60.5420a(b)(1) and the records of each monitoring survey per 40 CFR 60.5420a(b)(7)(i) through (xii). Multiple collection of fugitive emissions components at a compressor station may be included in a single annual report. The annual reports are due no later than same date each year as the initial annual report. [40 CFR 60.5397a(j)] & [40 CFR 60.5420a(b)]
10	Fugitive emissions components that cannot be monitored without elevating the monitoring personnel more than two meters above the surface may be designated as difficult-to-monitor, and must meet the following specifications: (i) A written plan shall be developed for all of the fugitive emissions components designated difficult-to-monitor. This written plan shall be incorporated into the fugitive emissions monitoring plan required by 40 CFR 60.5397a(b), (c), and (d). (ii) The plan shall include the identification and location of each fugitive emissions component designated as difficult-to-monitor. (iii) The plan shall include an explanation of why each fugitive emissions component designated as difficult-to-monitor is difficult-to-monitor. (iv) The plan shall include a schedule for monitoring the difficult-to-monitor fugitive emissions components at least once per calendar year. [40 CFR 60.5397a(g)(3)]	Other: The permittee shall observe each fugitive emissions component, as defined in 40 CFR 60.5430a, for fugitive emissions. Fugitive emissions are defined as: Any visible emission from a fugitive emissions component observed using optical gas imaging or an instrument reading of 500 ppmv or greater using Method 21. [40 CFR 60.5397a(a)] & [40 CFR 60.5397a(e)].	Other: The permittee shall maintain records as specified at 40 CFR 60.5420a(c)(15). [40 CFR 60.5397a(i)].	Submit a report: Annually. Annual reports shall include the general facility information and certification per 40 CFR 60.5420a(b)(1) and the records of each monitoring survey per 40 CFR 60.5420a(b)(7)(i) through (xii). Multiple collection of fugitive emissions components at a compressor station may be included in a single annual report. The annual reports are due no later than same date each year as the initial annual report. [40 CFR 60.5397a(j)] & [40 CFR 60.5420a(b)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<p>Fugitive emissions components that cannot be monitored because monitoring personnel would be exposed to immediate danger while conducting a monitoring survey may be designated as unsafe-to-monitor, and must meet the following specifications:</p> <p>(i) A written plan shall be developed for all of the fugitive emissions components designated unsafe-to-monitor. This written plan shall be incorporated into the fugitive emissions monitoring plan required by 40 CFR 60.5397a(b), (c), and (d).</p> <p>(ii) The plan shall include the identification and location of each fugitive emissions component designated as unsafe-to-monitor.</p> <p>(iii) The plan shall include an explanation of why each fugitive emissions component designated as unsafe-to-monitor is unsafe-to-monitor.</p> <p>(iv) The plan shall include a schedule for monitoring the fugitive emissions components designated as unsafe-to-monitor. [40 CFR 60.5397a(g)(4)]</p>	<p>Other: The permittee shall observe each fugitive emissions component, as defined in 40 CFR 60.5430a, for fugitive emissions. Fugitive emissions are defined as: Any visible emission from a fugitive emissions component observed using optical gas imaging or an instrument reading of 500 ppmv or greater using Method 21. [40 CFR 60.5397a(a)] & [40 CFR 60.5397a(e)].</p>	<p>Other: The permittee shall maintain records as specified at 40 CFR 60.5420a(c)(15). [40 CFR 60.5397a(i)].</p>	<p>Submit a report: Annually. Annual reports shall include the general facility information and certification per 40 CFR 60.5420a(b)(1) and the records of each monitoring survey per 40 CFR 60.5420a(b)(7)(i) through (xii). Multiple collection of fugitive emissions components at a compressor station may be included in a single annual report. The annual reports are due no later than same date each year as the initial annual report. [40 CFR 60.5397a(j)] & [40 CFR 60.5420a(b)]</p>
12	<p>Each identified source of fugitive emissions shall be repaired or replaced as soon as practicable, but no later than 30 calendar days after detection of the fugitive emissions. If the repair or replacement is technically infeasible, would require a vent blowdown, a compressor station shutdown, a well shutdown or well shut-in, or would be unsafe to repair during operation of the unit, the repair or replacement must be completed during the next scheduled compressor station shutdown, well shutdown, well shut-in, after a planned vent blowdown or within two years, whichever is earlier. [40 CFR 60.5397a(h)(1)] & [40 CFR 60.5397a(h)(2)]</p>	<p>Other: A fugitive emissions component is repaired when:</p> <p>(1) the Method 21 instrument indicates a concentration of less than 500 ppmv VOC as methane above background or when no soap bubbles are observed when the alternative screening procedures specified in section 8.3.3 of Method 21 are used; or</p> <p>(2) the optical gas imaging instrument shows no indication of visible emissions. [40 CFR 60.5397a(h)(3)(iii)] & [40 CFR 60.5397a(h)(3)(iv)].</p>	<p>Other: The permittee shall maintain records as specified at 40 CFR 60.5420a(c)(15). [40 CFR 60.5397a(i)].</p>	<p>Repair equipment: Upon occurrence of event. Each repaired or replaced fugitive emissions component shall be resurveyed as soon as practicable, but no later than 30 days after being repaired.</p> <p>For repairs that cannot be made during the monitoring survey when the fugitive emissions are initially found, the permittee shall resurvey the repaired fugitive emissions components using Method 21 or optical gas imaging.</p> <p>For each repair that cannot be made during the monitoring survey when the fugitive emissions were initially found, a digital photograph (including date and location) shall be taken of that component or the component shall be tagged for identification purposes. [40 CFR 60.5397a(h)(3)]</p>

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	<p>For each collection of fugitive emissions components at a compressor station, the permittee shall demonstrate continuous compliance with the fugitive emission standards specified in 40 CFR 60.5397a.</p> <p>(1) The permittee shall conduct periodic monitoring surveys as required in 40 CFR 60.5397a(g).</p> <p>(2) The permittee shall repair or replace each identified source of fugitive emissions as required in 40 CFR 60.5397a(h).</p> <p>(3) The permittee shall maintain records as specified in 40 CFR 60.5420a(c)(15).</p> <p>(4) The permittee shall submit annual reports for each collection of fugitive emissions components at a compressor station as required in 40 CFR 60.5420a(b)(1) and (7). [40 CFR 60.5415a(h)]</p>	None.	None.	<p>Submit a report: Annually. Annual reports shall include the general facility information and certification per 40 CFR 60.5420a(b)(1) and the records of each monitoring survey per 40 CFR 60.5420a(b)(7)(i) through (xii). Multiple collection of fugitive emissions components at a compressor station may be included in a single annual report. The annual reports are due no later than same date each year as the initial annual report. [40 CFR 60.5397a(j)] &. [40 CFR 60.5420a(b)]</p>

BOP210001

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

Subject Item: IS1 250 gallon diesel tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [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 Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

BOP210001

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

Subject Item: IS9 Unheated Parts Washer < 6.00 sq.ft top opening area or < 100. gal capacity.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Unheated Parts Washer must use less than 1/2 gals per hour of solvent containing <= 5% VOCs, HAPs, or VOCs and HAPs combined. [N.J.A.C. 7:27-22.1]	None.	None.	None.

BOP210001

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

Subject Item: IS10 Natural Gas Fired Equipment (< 1MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity: No visible smoke except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.

BOP210001

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

Subject Item: IS17 Pipeline Blowdown Events

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>The permittee shall submit a report of each pipeline blowdown event to the Northern Regional Enforcement Office.</p> <p>A "blowdown event" is defined as the non-emergency release of natural gas from a pipeline for the purpose of inspection, maintenance or repair and where, in the absence of control, more than 2,000 pounds of VOC could be released to the atmosphere. [N.J.A.C. 7:27-16.21(c)]</p>	None.	Other: The permittee shall maintain a copy of the Control Measure Plan required by N.J.A.C. 7:27-16.21(a) at the office having operating responsibility for the section of pipeline in which the blowdown event(s) will occur. A copy of such plan shall be provided to the Department within three days of receipt of a written request from the Department.[N.J.A.C. 7:27-16.21(d)].	Submit a report: Annually before March 1. The report should include the location, date, and duration of each pipeline blowdown event, a description of the emissions reduction procedures and technology used, and a quantification of the amount of VOC emission reductions achieved for each event. [N.J.A.C. 7:27-16.21(c)]

BOP210001

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

Subject Item: GR1 Engines and turbines

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Natural Gas Usage $\leq 1,411.4 \text{ MMft}^3/\text{yr.}$ [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by calculations each month during operation. [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. The permittee shall maintain calculations of total natural gas usage by eight internal combustion engines E1-E8 and combustion turbines E1001 and E1002 during each calendar month and each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.

BOP210001

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

Emission Unit: U1 Reciprocating Compressor Engines 1 through 8, Ingersoll Rand 412 - KVS, each 2050 HP natural gas fired lean-burn engine.

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>STACK TESTING SUMMARY Conduct a comprehensive stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NO_x and CO as specified in the compliance plan for OS Summary and VOC, NO_x, CO, and Formaldehyde, as specified in the compliance plan for operating scenarios, OS1 through OS8. Sampling points shall be established for each engine prior to the exhaust stream entering the main exhaust duct (PT1).</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>If any engine is not operated during any time during the permit term, a stack test is not required for that engine.</p> <p>[N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under the applicable operating scenarios.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenarios.[N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 380-01A, 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: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Northern Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]</p>
2	Opacity <= 20 % exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds, for all stationary internal combustion engines. [N.J.A.C. 7:27- 3.5]	None.	None.	None.

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	CO <= 500 ppmvd @ 15% O2 for each engine. [N.J.A.C. 7:27-16.10(b)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three 1-hour tests. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test 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 OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
4	The owner or operator of a stationary reciprocating engine that has a maximum rated power output of 37 kW 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. 7:27-16.10(e)] and [N.J.A.C. 7:27-19.8(f)]	Monitored 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)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment. The permittee shall record the following information for each adjustment in a log book or computer data system: 1. The date and times the adjustment began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentration of NOx, CO, and O2 measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment. The records shall be kept for a minimum of 5 years and be readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(h)]	None.
5	NOx (Total) <= 2.5 grams/brake horsepower-hour for a lean-burn stationary reciprocating engine capable of producing an output of 500 brake horsepower or more, fueled by gaseous fuel. [N.J.A.C. 7:27-19.8(b)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three 1-hour tests. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test 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 OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
6	TSP <= 3.52 tons/yr for all eight engines. Annual emission limit based on 153 MMscf fuel use per each engine. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	PM-10 (Total) <= 3.52 tons/yr for all eight engines. Annual emission limit based on 153 MMscf fuel use per each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	VOC (Total) <= 189.6 tons/yr for all eight engines. Annual emission limit based on 153 MMscf fuel use per each engine. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	NOx (Total) <= 395.9 tons/yr for all eight engines. Annual emission limit based on 153 MMscf fuel use per each engine. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	CO <= 253.9 tons/yr for all eight engines. Annual emission limit based on 153 MMscf fuel use per each engine from BOP150002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	HAPs (Total) <= 20.5 tons/yr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Formaldehyde <= 16.65 tons/yr from modification BOP150002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acrolein <= 3.86 tons/yr from modification BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Natural Gas Usage <= 153 MMft ³ per consecutive 12 month period, for each engine, based on preconstruction permit. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by gas use totalizing meter continuously. Fuel consumption per each engine is based on the higher heating value of 1,030 Btu/cf. [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. Record fuel consumption per each engine in a logbook or readily accessible computer files. Cubic Feet per any consecutive 12 months period 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. The Permittee will select month, calendar month, or production month. Once selected the period must not be changed without approval from NJDEP. [N.J.A.C. 7:27-22.16(o)]	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Maximum Gross Heat Input \leq 18 MMBTU/hr (HHV) per each engine E1 through E8, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate. Records acceptable to this department are nameplate specifications, manufacturer's specifications or engineering calculations showing the maximum gross rated heat input and should be kept on site for the life of the equipment. [N.J.A.C. 7:27-22.16(o)].	None.
16	I.C. Engine fuel limited to Natural Gas [N.J.A.C. 7:27-22.16(e)].	None.	None.	None.
17	Start-up Period \leq 30 minutes. Maximum time limitation for start-up based on preconstruction permit. Start-up shall be defined as the period of time during which the crankshaft of the engine is rotating, but its rotation is less than its normal operating range (270 - 330 RPM) and the load is less than 60% of rated based load. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Shutdown Period \leq 30 minutes. Maximum time limitation for shutdown based on preconstruction permit. Shutdown shall be defined as the period of time during which the crankshaft of the engine is rotating, but its rotation is less than its normal operating range (270- 330 RPM) and the load is less than 60% of rated based load. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	NESHAPS Subpart ZZZZ for Stationary Reciprocating Engines (RICE) is applicable to the facility. However, there are no requirements for existing natural gas-fired, lean-burn engines greater than 500 HP each that commenced construction prior to December 19, 2002. [40 CFR 63]	None.	None.	None.
20	Engines E1 and E3 shall operate with control devices CD1 and CD3 at all times during operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Engines E2 and E4 shall operate with control devices CD2 and CD4 at all times during operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Design Control Efficiency ≥ 93 % for CD1, CD2, CD3, and CD4 from BOP150002. [N.J.A.C. 7:27-22.16(a)]	Other: manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain documentation showing control efficiency.[N.J.A.C. 7:27-20.16(o)].	None.
23	At all times during normal/routine operation of the engines, the engines with control devices will be operated on a first-on and last-off basis. From modification BOP080001. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by program station automation system. This system shall be programmed to to prioritize the engines with controls to start up first and shut down last during normal/routine operation.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the following information and make them available at the site for Department inspection upon request: 1. Unit unavailability in hours for each engine with control. 2. Exception statement corresponding to each event describing reason unit is unavailable for each engine with control. 3. Calendar year-to-date hours of operation for each of the 8 engines. 4. Calendar year-to-date hours of operation of all 8 engines combined. [N.J.A.C. 7:27-22.16(o)]	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	<p>Hours of Operation: The permittee shall operate the engines in accordance with the following:</p> <ol style="list-style-type: none"> 1. There is no permit limit on the hours of operation for each engine. 2. However, if the combined operation of all 8 engines exceeds 20,000 hours in any calendar year, the permittee shall submit a Risk Minimization plan for the installation of oxidation catalyst controls on 4 of the 8 engines that were not scheduled for control device installation in 2013 and 2016 and also submit a Risk Minimization plan for the control of acrolein emissions from the eight engines to a level acceptable by the Department. From Modification BOP160001. [N.J.A.C. 7:27-22.16(a)] 	<p>Hours of Operation: Monitored by hour/time monitor continuously for each engine. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the monthly and year-to-date hours of operation for each engine and the total for all the 8 engines combined. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Submit the required air permit application(s): As per the approved schedule. Within 60 days of exceeding the hours of operation threshold, the permittee shall submit to the Department an application to modify the operating permit for installation of oxidation catalysts on the remaining 4 of the 8 engines, along with emission reductions that will result from the control installation. The permittee shall also submit a Risk Minimization plan specific for the reduction of Acrolein emissions for approval by the Department. The application shall include the following information:</p> <ol style="list-style-type: none"> 1. Schedule for installation and operation of controls (oxidation catalyst) on the remaining 4 engine exhaust stacks that are not part of the 2013 and 2016 schedule. 2. Controls on 2 engine exhaust stacks shall be installed and operated within 30 months of the exceedance of the threshold and 3. Two controls shall be installed and operated on the last 2 of the 8 engine exhaust stacks within 4 years of exceedance of the threshold. 4. A Risk Minimization plan for acrolein. [N.J.A.C. 7:27-22.16(o)]
25	<p>Upon installation and operation of controls on all 8 engines and the execution of a Department approved Risk Minimization plan for acrolein, the facility may request to remove the threshold on operating hours. From modification BOP160001. [N.J.A.C. 7:27-22.16(a)]</p>	<p>None.</p>	<p>None.</p>	<p>Submit the required air permit application(s): As per the approved schedule. Upon compliance demonstration of the emission limits after installation of the control devices on all 8 engines and the execution of an approved Risk Minimization plan specific to Acrolein, the facility may submit a request for Department review for removing the threshold on operating hours. [N.J.A.C. 7:27-22.16(o)]</p>

BOP210001

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

Emission Unit: U1 Reciprocating Compressor Engines 1 through 8, Ingersoll Rand 412 - KVS, each 2050 HP natural gas fired lean-burn engine.

Operating Scenario: OS1 IC Engine 1, Natural Gas Burning controlled by catalytic oxidizer, OS2 IC Engine 2, Natural Gas Burning controlled by catalytic oxidizer, OS3 C Engine 3C Engine 2, Natural Gas Burning controlled by catalytic oxidizer, OS4 IC Engine 4, Natural Gas Burning controlled by catalytic oxidizer

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 7.2 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of each engine. (Limit applies separately at each Emission Point, PT1 through PT8.). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	TSP <= 0.1 lb/hr per engine. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	PM-10 (Total) <= 0.1 lb/hr per engine. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	VOC (Total) <= 5.43 lb/hr per engine. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test 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 OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
5	CO <= 0.95 lb/hr. From BOP120001. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test 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 OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>CO \leq 0.95 lb/hr. From BOP120001.</p> <p>If the engine did not operate during the entire quarter, periodic emissions monitoring for that quarter is not required. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitored by periodic emission monitoring every quarter if the actual operation exceeds 200 hours during that quarter, but at least semi-annually, except when the engine did not operate during that period. Quarters shall begin January 1, April 1, July 1 and October 1 of each year. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in BTS Technical Manual 1005.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device 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.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)].</p>	<p>CO: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	None.
7	<p>NOx (Total) \leq 11.3 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]</p>	<p>NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</p>	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>NOx (Total) <= 11.3 lb/hr. Maximum emission rate from preconstruction permit.</p> <p>If the engine did not operate during the entire quarter, periodic emissions monitoring for that quarter is not required. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitored by periodic emission monitoring every quarter if the actual operation exceeds 200 hours during that quarter, but at least semi-annually, except when the engine did not operate during that period. Quarters shall begin January 1, April 1, July 1 and October 1 of each year. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in BTS Technical Manual 1005.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device 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.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem.[N.J.A.C. 7:27-22.16(o)].</p>	<p>NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	None.
9	HAPs (Total) <= 0.11 lb/hr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Acrolein <= 0.11 lb/hr per engine, from modification BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U1 Reciprocating Compressor Engines 1 through 8, Ingersoll Rand 412 - KVS, each 2050 HP natural gas fired lean-burn engine.
Operating Scenario: OS5 IC Engine 5, Natural Gas Burning, OS6 IC Engine 6, Natural Gas Burning, OS7 IC Engine 7, Natural Gas Burning, OS8 IC Engine 8, Natural Gas Burning

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 7.2 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of each engine. (Limit applies separately at each Emission Point, PT1 through PT8.). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	TSP \leq 0.1 lb/hr per engine. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	PM-10 (Total) \leq 0.1 lb/hr per engine. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	VOC (Total) \leq 5.43 lb/hr per engine. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test 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 OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
5	CO \leq 13.54 lb/hr. From BOP080001. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test 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 OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>CO \leq 13.54 lb/hr. From BOP080001.</p> <p>If the engine did not operate during the entire quarter, periodic emissions monitoring for that quarter is not required. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitored by periodic emission monitoring every quarter if the actual operation exceeds 200 hours during that quarter, but at least semi-annually, except when the engine did not operate during that period. Quarters shall begin January 1, April 1, July 1 and October 1 of each year. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in BTS Technical Manual 1005.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device 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.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)].</p>	<p>CO: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	None.
7	<p>NOx (Total) \leq 11.3 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]</p>	<p>NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test 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 test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]</p>

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>NO_x (Total) ≤ 11.3 lb/hr. Maximum emission rate from preconstruction permit.</p> <p>If the engine did not operate during the entire quarter, periodic emissions monitoring for that quarter is not required. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitored by periodic emission monitoring every quarter if the actual operation exceeds 200 hours during that quarter, but at least semi-annually, except when the engine did not operate during that period. Quarters shall begin January 1, April 1, July 1 and October 1 of each year. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in BTS Technical Manual 1005.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device 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.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)].</p>	<p>NO_x (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	None.
9	HAPs (Total) ≤ 1.06 lb/hr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Formaldehyde ≤ 0.95 lb/hr per engine, from modification BOP080001. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test 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 OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
11	Acrolein ≤ 0.11 lb/hr per engine, from modification BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Emission Unit: U9 9 MM Btu/hr Natural gas fired RICE with 1072 hp output

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart A General Provisions 40 CFR 63 Subpart ZZZZ [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	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.
3	Particulate Emissions <= 6 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Generator fuel limited to natural gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP210001

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

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

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>FOR OPERATING PERMITS 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. [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.

BOP210001

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

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

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system 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.
9	Maximum Gross Heat Input <= 9 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
10	VOC (Total) <= 0.15 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	NOx (Total) <= 0.352 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	CO <= 0.468 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	At all times the owner or operator must operate and maintain a RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 CFR 63.6640(f)(2i)]	None.	None.	None.

BOP210001

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

Emission Unit: U9 9 MM Btu/hr Natural gas fired RICE with 1072 hp output

Operating Scenario: OS1 Waukesha 5108 GL, Natural Gas burning

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.04 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 7.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 9.38 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U10 3.5 MMBtu/hr Natural Gas Cyclotherm Boiler, 3.5 MMBTU/hr

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart A General Provisions 40 CFR 63 Subpart DDDDD [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	No visible emissions except for a period of not longer than three minutes in any consecutive 30 minute period. [N.J.A.C.7:27-3.2(a)] & [N.J.A.C. 7:27-3.2(c)]	None.	None.	None.
3	TSP <= 2.1 lb/hr , from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	CO <= 3.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 1.7 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Natural Gas Usage <= 34 MMft ³ /yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Boiler fuel limited to natural gas. [N.J.A.C. 7:27-22.16(a)].	None.	None.	None.
8	Maximum Gross Heat Input <= 3.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.. The permittee shall retain on site for the life of the equipment the maximum gross rated heat input. Records acceptable to this department are nameplate specifications, manufacturer's specifications or engineering calculations.[N.J.A.C. 7:27-22.16(o)].	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	At all times, the permitte must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.7500(a)(3)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	<p>The permittee must complete a one-time energy assessment of the existing boiler or process heater no later than January 31, 2016, performed by a qualified energy assessor.</p> <p>An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 3 to 40 CFR 63 subpart DDDDD, satisfies the energy assessment requirement. A facility that operated under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least one year between January 1, 2008 and January 31, 2016 also satisfies the energy assessment requirement.</p> <p>The energy assessment must be performed in accordance with Table 3 to 40 CFR 63 subpart DDDDD. [40 CFR 63.7530(e)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. In accordance with Table 3 to 40 CFR 63 subpart DDDDD, the energy assessment must include the following with extent of the evaluation for items a. to e. appropriate for the on-site technical hours listed in 40 CFR 63.7575:</p> <p>a. A visual inspection of the boiler or process heater system.</p> <p>b. An evaluation of operating characteristics of the boiler or process heater systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.</p> <p>c. An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator.</p> <p>d. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage.</p> <p>e. A review of the facility's energy management program and provide recommendations for improvements consistent with the definition of energy management program, if identified.</p> <p>f. A list of cost-effective energy conservation measures that are within the facility's control.</p> <p>g. A list of the energy savings potential of the energy conservation measures identified.</p> <p>h. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.</p> <p>[40 CFR 63.7530(e)]</p>	<p>Submit notification: Once initially Submit a Notification of Compliance status for existing sources no later than March 31, 2016 that includes the information in 40 CFR 63.7545(e)(1) and (e)(8) as follows:</p> <p>- A description including identification of which subcategories the unit is in, the design heat input capacity, a description of the add-on controls, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined to be a non-waste under paragraph 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration, and</p> <p>- The following certification(s) of compliance, as applicable, and signed by a responsible official:</p> <p>"This facility completed the required initial tune-up according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi)."</p> <p>"This facility has had an energy assessment completed either according to Table 3 to MACT DDDDD, and the assessment is an accurate depiction of your facility, or that the maximum number of on-site technical hours specified in the definition of energy assessment applicable to the facility has been expended."</p> <p>Except for units that burn only natural gas or refinery gas, or units that qualify for a statutory exemption: "No secondary materials that are solid waste were combusted in any affected unit."</p> <p>[40 CFR 63.7530(e)]</p>

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The permittee must submit the Initial Notification not later than 120 days after January 31, 2013 for sources that began operation before January 31, 2013, and for sources that started on or after January 31, 2013, not later than 15 days after the actual date of startup of the new source. [40 CFR 63.7545]	None.	None.	<p>Submit notification: Once initially within 120 days after January 31, 2013 or 15 days after the actual date of startup, whichever is later, to the Administrator, EPA Region 2, certified by the responsible official. The Initial Notification shall also be submitted to NJ DEP, per 40 CFR 63.13.</p> <p>The permittee may use instructions and the forms provided on the EPA website http://www.epa.gov/ttn/atw/boiler/boilerpg.html [40 CFR 63.7545(b)] and [40 CFR 63.7545(c)]</p>

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	<p>Submit a first annual, biennial, or 5-year, as applicable, compliance report no later than January 31 following the 1, 2 or 5 year period, as applicable, after January 31, 2016. Each subsequent compliance report must be submitted no later than January 31 following the end of the annual, biennial or 5-year, as applicable, reporting period. Per 40 CFR 63.7550(c)(1), the report must contain the following information:</p> <p>(1) Company and Facility name and address.</p> <p>(2) Process unit information, emissions limitations, and operating parameter limitations</p> <p>(3) Date of report and beginning and ending dates of the reporting period.</p> <p>(4) The total operating time during the reporting period for limited use boiler or process heater.</p> <p>(5) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct a biennial or 5-year tune-up . Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown.</p> <p>(6) Statement by a responsible official with that official name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. [40 CFR 63.7550(b)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain files of all required information (including all reports and notifications) recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)]</p>	<p>Submit a report: As per the approved schedule electronically to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX, www.epa.gov/cdx). The permittee must use the appropriate electronic report in CEDRI for 40 CFR 63 Subpart DDDDD. Instead of using the electronic report in CEDRI, the permittee may submit an alternate electronic file consistent with the XML schema listed on the CEDRI website (http://www.epa.gov/ttn/chief/cedri/index.html), once the XML schema is available.</p> <p>However, if the reporting form specific to 40 CFR 63 Subpart DDDDD is not available in CEDRI at the time that the report is due the permittee must submit the report to the EPA Administrator Region 2. The permittee must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [40 CFR 63.7550(h)(3)]</p>
13	<p>The owner or operator of a boiler or process heater shall comply with the applicable General Provisions in 40 CFR 63 Subpart A as listed in Table 10 in 40 CFR 63 Subpart DDDDD. [40 CFR 63.7565]</p>	None.	None.	None.

BOP210001

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

Emission Unit: U10 3.5 MMBtu/hr Natural Gas Cyclotherm Boiler, 3.5 MMBTU/hr

Operating Scenario: OS1 Cyclotherm Boiler, Natural Gas burning

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 0.388 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	CO <= 0.815 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U11 Pipeline liquids tank used to store natural gas condensate, 6000 gallons

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The storage of any applicable VOC in any stationary storage tank with a maximum capacity of 2,000 gallons or greater and is exposed to the rays of the sun shall have the external surface of the tank painted and maintained white. [N.J.A.C. 7:27-16.2(b)1i]	Monitored by visual determination once initially. [N.J.A.C. 7:27-22.16(o)]	None.	None.
2	Tank content limited to Natural Gas Condensate and Maximum Vapor Pressure of Natural Gas Condensate <= 7.5 psia at 100 degree Fahrenheit. [N.J.A.C. 7:27-22.16(e)]	None.	Other: The owner or operator shall maintain on-site, records that specify each VOC stored and the vapor pressure of each VOC at standard conditions, for a period of no less than five years and make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.2(s)1] and [N.J.A.C. 7:27-16.22(a)].	None.
3	Total Material Transferred <= 12,000 gal/yr. [N.J.A.C. 7:27-22.16(e)]	Other: Total Material Transferred: Monitored by material feed/flow totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. Record through put for liquidified natural gas. [N.J.A.C. 7:27-22.16(o)]	None.

BOP210001

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

Emission Unit: U12 Emergency Generator

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Requirements: 40 CFR 60 Subpart A 40 CFR 60 Subpart JJJJ 40 CFR 63 Subpart A 40 CFR 63 Subpart ZZZZ [40 CFR Federal Rules Summary]	None.	None.	None.
2	<p>STACK TESTING SUMMARY 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 as specified in the compliance plan for OS1.</p> <p>The performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in 40 CFR 60.8 and under the specific conditions that are specified by Table 2 to 40 CFR 60 Subpart JJJJ [40 CFR 60.4244(a)]</p> <p>THIS STACK TEST IS SUBJECT TO THE SIGNIFICANT MODIFICATION SUPPLEMENTAL FEES PURSUANT TO N.J.A.C. 7:27-22.31. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: The stack test must be conducted either 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>	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 within 60 days from the date of the approved operating permit BOP210001. 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>

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>PERIODIC STACK TESTING SUMMARY</p> <p>The permittee shall conduct a periodic stack test required by 40 CFR 60 Subpart JJJJ using a protocol approved by the Department to demonstrate compliance with emission limits for NO_x, CO, and VOC as specified in the compliance plan for OS1.</p> <p>Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in 40 CFR 60.8 and under the specific conditions that are specified by Table 2 to 40 CFR 60 Subpart JJJJ [40 CFR 60.4244(a)] [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 no later than 180 days prior to the testing due date or request from EMS, in writing, to use a previously approved protocol no later than 90 days prior to the testing due date. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT) that is downloaded at: https://www.epa.gov/chief, unless another format is approved by EMS. 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>
4	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
5	CO <= 0.96 tons/yr based on 100 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	NO _x (Total) <= 0.48 tons/yr based on 100 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.01 tons/yr based on 100 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	PM-2.5 (Total) <= 0.01 tons/yr based on 100 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.0027 tons/yr based on 100 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	VOC (Total) <= 0.288 tons/yr , including formaldehyde, based on 100 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	HAPs (Total) <= 0.053 tons/yr based on 100 hours of operation. This limit includes only HAPs emitted above reporting thresholds. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Methylnaphthalene (2-) <= 0.0000303 tons/yr based on 100 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acrolein <= 0.0047 tons/yr based on 100 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Ethylene dibromide <= 0.0000405 tons/yr based on 100 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Formaldehyde <= 0.0482 tons/yr based on 100 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	<p>The emergency generator shall be located at the facility and produce electrical power exclusively for use at the facility when the primary source of energy is unavailable as a result of:</p> <ol style="list-style-type: none"> 1. A power disruption that results from construction, repair, or maintenance activity at the facility. Operation of the combustion source under this subparagraph is limited to 30 days in any calendar year, not including operation during the performance of normal testing and maintenance procedures, as provided at N.J.A.C. 7:27-19.2(d)1; 2. A power outage or failure of the primary source of mechanical or thermal energy because of an emergency; or 3. A voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. <p>The emergency generator may also be used during the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required by a Federal or State statute or regulation. [N.J.A.C. 7:27-19.1] and [N.J.A.C. 7:27-19.2(d)1]</p>	None.	<p>Other: The permittee shall maintain on site the following records:</p> <ol style="list-style-type: none"> 1. 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 2. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. <p>[N.J.A.C. 7:27-19.11(a)].</p>	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The emergency generator shall not be used for normal testing and maintenance, except as set forth in this paragraph, 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 , incorporated herein by reference, as amended and supplemented, 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 . However, public water systems, wastewater and stormwater systems, and sludge management facilities may perform normal testing and maintenance on their emergency generators, regardless of air quality, during the 48 hours prior to a National Weather Service-designated named storm impacting the facility's area of the State. These entities must notify the Department by calling the hotline at 1-877-WARN-DEP (1-877-927-6337) before conducting such normal testing and maintenance if the air quality forecast at http://www.njairnow.net/ is unhealthy or worse. [N.J.A.C. 7:27-19.2(d)2]	None.	None.	None.
18	The emergency shall not be used 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)3]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	The emergency generator must achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. [40 CFR 60.4234]	None.	Other: The permittee must keep records of the documentation that the engine meets the emission standards.[40 CFR 60.4245(a)(4)].	None.
20	The permittee shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 60.4243(b)(2)(ii)]	None.	Other: The permittee shall keep a maintenance plan and records of conducted maintenance[40 CFR 60.4243(b)(2)(ii)].	None.
21	The permittee must keep the following records: 1. All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; 2. Maintenance conducted on the engine; and 3. Documentation from the manufacturer that the engine is certified. [40 CFR 60.4245(a)]	None.	None.	None.
22	The permittee shall submit an initial notification as required in 40 CFR 60.7(a)(1). [40 CFR 60.4245(c)]	None.	None.	Submit notification: As per the approved schedule The permittee shall submit a notification of the date construction of the emergency generator is commenced postmarked no later than 30 days after such date. The notification shall include the following information: (1) Name and address of the owner or operator; (2) The address of the affected source; (3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement; (4) Emission control equipment; and (5) Fuel used. [40 CFR 60.7(a)1] and. [40 CFR 60.4245(c)]

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The permittee shall comply with the applicable General Provisions in 40 CFR 60 Subpart A as listed in Table 3 in 40 CFR 60 Subpart JJJJ. [40 CFR 60.4246]	None.	None.	None.
24	At all times the owner or operator must operate and maintain a RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.
25	The permittee shall submit an Initial Notification in accordance with 40 CFR 63.6590(b). The notification should include the information in 40 CFR 63.9(b)(2)(i) through (v), and a statement that the stationary RICE has no additional requirements and explain the basis of the exclusion. [40 CFR 63.6640(e)] and [40 CFR 63.6645(f)]	None.	None.	<p>Submit notification: Once initially. The owner or operator shall submit an Initial Notification within 120 calendar days after the source becomes subject to MACT Subpart ZZZZ to Director, Air and Waste Management Division, USEPA Region 2, 290 Broadway, New York, NY 10007-1866, and copy to the Northern Regional Enforcement Office of NJDEP.</p> <p>The notification shall include the following information:</p> <ul style="list-style-type: none"> (i) The name and address of the owner or operator; (ii) The address (i.e., physical location) of the affected source; (iii) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date; (iv) A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted; (v) A statement of whether the affected source is a major source or an area source; and (vi) a statement that the stationary RICE has no additional requirements and explain the basis of the exclusion. [40 CFR 63.6645(c)]

BOP210001

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

Emission Unit: U12 Emergency Generator**Operating Scenario:** OS1 18.35 MMB Btu/hr Natural Gas fired RICE with 1800 hp output with Low Emission Combustion (LEC) for emergency electrical generation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO ≤ 4 grams/brake horsepower-hour or 540 ppmvd at 15% O ₂ . [40 CFR 60.4233(e)]	CO: Monitored by stack emission testing once initially, based on the average of three 1-hour tests according to the requirement specified in 40 CFR 60.6244, as applicable. In addition, the permittee shall conduct subsequent stack tests every 8760 hours or 3 years, whichever comes first, thereafter. [40 CFR 60.4243(b)(2)(ii)]	CO: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
2	CO ≤ 19.2 lb/hr based on 40 CFR 60 Subpart JJJJ. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NO _x (Total) ≤ 2 grams/brake horsepower-hour or 160 ppmvd @ 15% O ₂ . [40 CFR 60.4233(e)]	NO _x (Total): Monitored by stack emission testing once initially, based on the average of three 1-hour tests according to the requirement specified in 40 CFR 60.6244, as applicable. In addition, the permittee shall conduct subsequent stack tests every 8760 hours or 3 years, whichever comes first, thereafter. [40 CFR 60.4243(b)(2)(ii)]	NO _x (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
4	NO _x (Total) ≤ 9.59 lb/hr based on 40 CFR 60 Subpart JJJJ. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO ₂ ≤ 0.054 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP ≤ 3.67 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
7	TSP < 0.05 lb/hr (below reporting threshold). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) ≤ 0.18 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) ≤ 0.18 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	VOC (Total) <= 1 grams/brake horsepower-hour or 86 ppmvd @ 15% O ₂ . [40 CFR 60.4233(e)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three 1-hour tests according to the requirement specified in 40 CFR 60.6244, as applicable. In addition, the permittee shall conduct subsequent stack tests every 8760 hours or 3 years, whichever comes first, thereafter. [40 CFR 60.4243(b)(2)(ii)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
11	VOC (Total) <= 4.79 lb/hr based on 40 CFR 60 Subpart JJJJ. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Hours of Operation <= 100 hr/yr maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine [40 CFR 60.4243(d)2] and. [40 CFR 63.6640(f)(2)]	Hours of Operation: Monitored by hour/time monitor continuously. [40 CFR 60.4237(a)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain records of the total operating time from the generator's hour meter, 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 60.4245(b)] and. [N.J.A.C. 7:27-19.11(a)1]	None.

BOP210001

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

Emission Unit: U13 Natural Gas Liquids Condensate Tank

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The external surface of the tank shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	Tank contents shall be limited to natural gas condensate with vapor pressure less than or equal to 7.5 psia at 100 degree Fahrenheit. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The permittee shall maintain on-site, records that specify each VOC stored and the vapor pressure of each VOC at standard conditions[N.J.A.C. 7:27-16.2(s)1].	None.
3	Total Throughput <= 60,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Total throughput shall be monitored by material flow totalizing meter continuously.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: 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.

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Subject Item: CD1001 Turbine 1 CO Oxidation Catalyst

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The inlet temperature to the catalyst, except during startup: Temperature \geq 500 degrees F. [N.J.A.C. 7:27-22.16(a)]	Temperature: Monitored by temperature instrument continuously, based on a 4 hour rolling average based on a 1 hour block average. Except for monitor malfunctions, associated repairs, and required quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments of the monitoring system), the permittee must conduct all parametric monitoring at all times the stationary combustion turbine is operating. [40 CFR 63.6125(a)] and. [40 CFR 63.6135(a)]	Temperature: Recordkeeping by strip chart or data acquisition (DAS) system continuously. The permittee shall keep each record for 5 years following the date of each measurement [40 CFR 63.6155(c)] and. [40 CFR 63.6160(b)]	None.
2	The permittee shall develop and implement a continuous monitoring system (CMS) quality control program that included written procedures for CMS according to 40 CFR 63.8(d)(1) through (2). [40 CFR 63.6125(e)]	None.	Other: The permittee shall keep CMS quality control written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR 63, to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan is revised, the permittee shall keep previous (i.e., superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of 5 years after each revision to the plan. The program of corrective action should be included in the plan required under 40 CFR 63.8(d)(2).[40 CFR 63.6125(e)].	None.

BOP210001

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

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Requirements: 40 CFR 60 Subpart A 40 CFR 60 Subpart KKKK 40 CFR 63 Subpart A 40 CFR 63 Subpart YYYY [40 CFR Federal Rules Summary]	None.	None.	None.
2	<p>STACK TESTING SUMMARY The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for CO, NOx, VOC, Ammonia, and Formaldehyde as specified in the compliance plan for OS1 and OS2.</p> <p>The permittee shall provide EMS with the turbine load performance curve with the protocol.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>THIS STACK TEST IS SUBJECT TO THE SIGNIFICANT MODIFICATION SUPPLEMENTAL FEES PURSUANT TO N.J.A.C. 7:27-22.31. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: The stack test must be conducted either within 180 days after initial startup of the new 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/NOx 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>	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 within 60 days from the approval date of the operating permit BOP210001. 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>

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>PERIODIC STACK TESTING SUMMARY</p> <p>The permittee shall conduct periodic stack tests required by 40 CFR 60 Subpart KKKK and 40 CFR 63 Subpart YYYY using protocols approved by the Department to demonstrate compliance with emission limits for CO, NOx, Ammonia, and Formaldehyde as specified in the compliance plan for OS1 and OS2.</p> <p>The permittee shall provide EMS with the turbine load performance curve with the protocol.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [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 no later than 180 days prior to the testing due date or request from EMS, in writing, to use a previously approved protocol no later than 90 days prior to the testing due date. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT) that is downloaded at: https://www.epa.gov/chief, unless another format is approved by EMS. 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>
4	CO ≤ 11.6 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) ≤ 12.8 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP ≤ 1.51 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	PM-10 (Total) <= 6.02 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 6.02 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 2.7 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	VOC (Total) <= 3.47 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	HAPs (Total) <= 0.173 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Acetaldehyde <= 0.0232 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acrolein <= 0.00371 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Benzene <= 0.00696 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Formaldehyde <= 0.122 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Propylene oxide <= 0.0168 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Methane <= 24 tons/yr based on usage of 1,411.4 MMscf of natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Ammonia <= 8.84 tons/yr based on 8760 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 cosecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
20	Opacity: no visible emissions, exclusive of visible condensed water vapor, except for a period of not longer than 10 cosecutive seconds [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Natural Gas Usage <= 1,411.4 MMft ³ /yr. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel usage totalizing meter continuously. [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. The permittee shall maintain records of total natural gas usage during each calendar month and each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.
22	SO2 <= 0.06 lb/MMBTU . [40 CFR 60.4330(a)(2)]	None.	Other: The permittee shall maintain current, valid purchase contract, tariff sheet or transportation contract specifying that the maximum total sulfur content for natural gas is 20 grains of sulfur or less per 100 standard cubic feet.[40 CFR 60.4365(a)].	Submit documentation of compliance: Once initially. The permittee shall furnish the Administrator and NJDEP a written report of the results. The permittee shall demonstrate that the potential sulfur emissions from each type of fuel do not exceed potential sulfur emissions of 0.060 lb SO2 per MMBtu heat input using sources of information listed in 40 CFR 60.4365(a) or perform representative fuel sampling as described in 60.4365(b). [40 CFR 60.8(a)]
23	The owner or operator shall operate and maintain the subject stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown and malfunction. [40 CFR 60.4333(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	The permittee must operate and maintain turbines, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6105(c)]	None.	None.	None.

BOP210001

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

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Operating Scenario: OS1 Natural Gas Fired Combustion Turbine #1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by stack emission testing once initially, 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 upon occurrence of event. [N.J.A.C. 7:27-16.23(a)2]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
2	CO <= 15 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.35]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
3	CO <= 15 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.35]	CO: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. If stack test results of all NO _x and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NO _x or CO limit, an annual performance testing must be resumed. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
4	CO <= 0.47 lb/hr based on information from the manufacturer. [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. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	CO ≤ 0.47 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. If stack test results of all NOx and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NOx or CO limit, an annual performance testing must be resumed. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) ≤ 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. The stack test shall be conducted concurrently with CO testing. The NOx emission limit 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 upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
7	NOx (Total) ≤ 25 ppmvd @ 15% O ₂ . [40 CFR 60.4320(a)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Test methods and procedures shall be consistent with the requirements at 40 CFR 60.4400. [40 CFR 60.8(a)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in 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	NOx (Total) <= 25 ppmvd @ 15% O2. [40 CFR 60.4320(a)]	NOx (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. Test methods and procedures shall be consistent with the requirements at 40 CFR 60.4400. If stack test results of all NOx and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NOx or CO limit, an annual performance testing must be resumed. [40 CFR 60.4400]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
9	NOx (Total) <= 25 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.35]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
10	NOx (Total) <= 25 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.35]	NOx (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. If stack test results of all NOx and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NOx or CO limit, an annual performance testing must be resumed. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
11	NOx (Total) <= 2.32 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	NOx (Total) <= 2.32 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. If stack test results of all NOx and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NOx or CO limit, an annual performance testing must be resumed. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
13	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
14	VOC (Total) <= 0.45 lb/hr based on information from the manufacturer. [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. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
15	TSP <= 18 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
16	TSP <= 0.29 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-10 (Total) <= 1.14 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	PM-2.5 (Total) <= 1.14 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	SO2 <= 0.51 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Acetaldehyde <= 0.00301 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Acrolein <= 0.000482 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	Benzene <= 0.000904 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Formaldehyde <= 91 ppbv at 15% oxygen, dry basis. [40 CFR 63.6100]	Formaldehyde: Monitored by stack emission testing once initially, based on the average of three 1-hour tests. Test must be conducted within 10 percent of 100-percent load. [40 CFR 63.6110(a)] and. [40 CFR 63.6120]	Formaldehyde: Recordkeeping by stack test results upon occurrence of event. The owner or operator must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. [40 CFR 63.6120(c)]	Submit documentation of compliance: As per the approved schedule The permittee shall submit the Notification of Compliance Status containing results of the initial compliance demonstration, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test. [40 CFR 63.6130(b)] and. [40 CFR 63.6145(f)]
24	Formaldehyde <= 91 ppbv at 15% oxygen, dry basis. [40 CFR 63.6100]	Formaldehyde: Monitored by stack emission testing annually, based on the average of three 1-hour tests. Test must be conducted within 10 percent of 100-percent load. [40 CFR 63.6115] and. [40 CFR 63.6120]	Formaldehyde: Recordkeeping by stack test results upon occurrence of event. The owner or operator must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. [40 CFR 63.6120(c)]	Submit documentation of compliance: As per the approved schedule The permittee shall submit the Notification of Compliance Status containing results of each performance test results before the close of business on the 60th calendar day following the completion of the performance test. [40 CFR 63.6145(f)]
25	Formaldehyde <= 0.0158 lb/hr based on the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
26	Formaldehyde <= 0.0158 lb/hr based on the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
27	Propylene oxide <= 0.00219 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	Ammonia <= 1.11 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Ammonia <= 1.11 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. If stack test results of all NOx and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NOx or CO limit, an annual performance testing must be resumed. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
30	Methane <= 3.6 lb/hr based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
31	Maximum Gross Heat Input <= 150.16 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: the permittee shall maintain documentation showing maximum heat input rate[N.J.A.C. 7:27-22.16(o)].	None.

BOP210001

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

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Operating Scenario: OS2 Natural Gas Fired Combustion Turbine #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by stack emission testing once initially, 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 upon occurrence of event. [N.J.A.C. 7:27-16.23(a)2]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
2	CO <= 15 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.35]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
3	CO <= 15 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.35]	CO: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. If stack test results of all NO _x and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NO _x or CO limit, an annual performance testing must be resumed. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
4	CO <= 0.47 lb/hr based on information from the manufacturer. [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. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	CO ≤ 0.47 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. If stack test results of all NOx and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NOx or CO limit, an annual performance testing must be resumed. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) ≤ 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. The stack test shall be conducted concurrently with CO testing. The NOx emission limit 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 upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
7	NOx (Total) ≤ 25 ppmvd @ 15% O ₂ . [40 CFR 60.4320(a)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Test methods and procedures shall be consistent with the requirements at 40 CFR 60.4400. [40 CFR 60.8(a)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in 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	NOx (Total) <= 25 ppmvd @ 15% O2. [40 CFR 60.4320(a)]	NOx (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. Test methods and procedures shall be consistent with the requirements at 40 CFR 60.4400. If stack test results of all NOx and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NOx or CO limit, an annual performance testing must be resumed. [40 CFR 60.4400]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
9	NOx (Total) <= 25 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.35]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
10	NOx (Total) <= 25 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.35]	NOx (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. If stack test results of all NOx and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NOx or CO limit, an annual performance testing must be resumed. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
11	NOx (Total) <= 2.32 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	NOx (Total) <= 2.32 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. If stack test results of all NOx and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NOx or CO limit, an annual performance testing must be resumed. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
13	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
14	VOC (Total) <= 0.45 lb/hr based on information from the manufacturer. [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. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
15	TSP <= 18 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
16	TSP <= 0.29 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-10 (Total) <= 1.14 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	PM-2.5 (Total) <= 1.14 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	SO2 <= 0.51 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Acetaldehyde <= 0.00301 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Acrolein <= 0.000482 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	Benzene <= 0.000904 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Formaldehyde <= 91 ppbv at 15% oxygen, dry basis. [40 CFR 63.6100]	Formaldehyde: Monitored by stack emission testing once initially, based on the average of three 1-hour tests. Test must be conducted within 10 percent of 100-percent load. [40 CFR 63.6110(a)] and. [40 CFR 63.6120]	Formaldehyde: Recordkeeping by stack test results upon occurrence of event. The owner or operator must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. [40 CFR 63.6120(c)]	Submit documentation of compliance: As per the approved schedule The permittee shall submit the Notification of Compliance Status containing results of the initial compliance demonstration, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test. [40 CFR 63.6130(b)] and. [40 CFR 63.6145(f)]
24	Formaldehyde <= 91 ppbv at 15% oxygen, dry basis. [40 CFR 63.6100]	Formaldehyde: Monitored by stack emission testing annually, based on the average of three 1-hour tests. Test must be conducted within 10 percent of 100-percent load. [40 CFR 63.6115] and. [40 CFR 63.6120]	Formaldehyde: Recordkeeping by stack test results upon occurrence of event. The owner or operator must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. [40 CFR 63.6120(c)]	Submit documentation of compliance: As per the approved schedule The permittee shall submit the Notification of Compliance Status containing results of each performance test results before the close of business on the 60th calendar day following the completion of the performance test. [40 CFR 63.6145(f)]
25	Formaldehyde <= 0.0158 lb/hr based on the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
26	Formaldehyde <= 0.0158 lb/hr based on the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
27	Propylene oxide <= 0.00219 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	Ammonia <= 1.11 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Ammonia <= 1.11 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. If stack test results of all NOx and CO actual emissions are less than or equal to 75% of the emission limits in this operating scenario, the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of any NOx or CO limit, an annual performance testing must be resumed. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results upon occurrence of event. [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 in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
30	Methane <= 3.6 lb/hr based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
31	Maximum Gross Heat Input <= 150.16 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: the permittee shall maintain documentation showing maximum heat input rate[N.J.A.C. 7:27-22.16(o)].	None.

BOP210001

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

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Operating Scenario: OS3 Natural Gas Fired Combustion Turbine #1 Sub-Zero Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
2	CO <= 3.11 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NO _x (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
4	NO _x (Total) <= 25 ppmvd @ 15% O ₂ . [40 CFR 60.4320(a)]	None.	None.	None.
5	NO _x (Total) <= 10.7 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
7	VOC (Total) <= 0.89 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 18 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	TSP <= 0.29 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 1.17 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) <= 1.17 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO ₂ <= 0.53 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acetaldehyde <= 0.00309 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Acrolein <= 0.000495 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Benzene <= 0.000928 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Formaldehyde <= 91 ppbv at 15% oxygen, dry basis. [40 CFR 63.6100]	None.	None.	None.
17	Formaldehyde <= 0.0162 lb/hr based on the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Propylene oxide <= 0.00224 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Ammonia <= 1.89 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Methane <= 7.13 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Maximum Gross Heat Input <= 154.67 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: the permittee shall maintain documentation showing maximum heat input rate[N.J.A.C. 7:27-22.16(o)].	None.

BOP210001

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

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Operating Scenario: OS4 Natural Gas Fired Combustion Turbine #2 Sub-Zero Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
2	CO <= 3.11 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NO _x (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
4	NO _x (Total) <= 25 ppmvd @ 15% O ₂ . [40 CFR 60.4320(a)]	None.	None.	None.
5	NO _x (Total) <= 10.7 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
7	VOC (Total) <= 0.89 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 18 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	TSP <= 0.29 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 1.17 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) <= 1.17 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO ₂ <= 0.53 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acetaldehyde <= 0.00309 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Acrolein <= 0.000495 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Benzene <= 0.000928 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Formaldehyde <= 91 ppbv at 15% oxygen, dry basis. [40 CFR 63.6100]	None.	None.	None.
17	Formaldehyde <= 0.0162 lb/hr based on the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Propylene oxide <= 0.00224 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Ammonia <= 1.89 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Methane <= 7.13 lb/hr based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Maximum Gross Heat Input <= 154.67 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: the permittee shall maintain documentation showing maximum heat input rate[N.J.A.C. 7:27-22.16(o)].	None.

BOP210001

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

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Operating Scenario: OS5 Startup for Turbine #1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
2	CO <= 25.5 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NO _x (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
4	NO _x (Total) <= 1.5 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
6	VOC (Total) <= 3 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 18 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
8	TSP <= 0.072 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.29 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-2.5 (Total) <= 0.29 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	SO ₂ <= 0.13 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Acetaldehyde <= 0.02 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acrolein <= 0.0032 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Benzene <= 0.006 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Formaldehyde <= 0.11 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Propylene oxide <= 0.01 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Methane <= 15 lb per event based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Start-up Period <= 15 minutes from initial firing of natural gas in the turbine. [N.J.A.C. 7:27-22.16(a)]	None.	Start-up Period: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event The permittee shall maintain records of the date, time, and duration of each startup period. [60 CFR 60.7(b)] and. [40 CFR 63.6155(a)(6)]	None.
19	Number of startups <= 150 events per year. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain records of the total number of startups during each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.

BOP210001

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

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Operating Scenario: OS6 Startup for Turbine #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
2	CO <= 25.5 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NO _x (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
4	NO _x (Total) <= 1.5 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
6	VOC (Total) <= 3 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 18 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
8	TSP <= 0.072 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.29 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-2.5 (Total) <= 0.29 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	SO ₂ <= 0.13 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Acetaldehyde <= 0.02 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acrolein <= 0.0032 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Benzene <= 0.006 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Formaldehyde <= 0.11 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Propylene oxide <= 0.01 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Methane <= 15 lb per event based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Start-up Period <= 15 minutes from initial firing of natural gas in the turbine. [N.J.A.C. 7:27-22.16(a)]	None.	Start-up Period: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event The permittee shall maintain records of the date, time, and duration of each startup period. [60 CFR 60.7(b)] and. [40 CFR 63.6155(a)(6)]	None.
19	Number of startups <= 150 events per year. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain records of the total number of startups during each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.

BOP210001

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

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Operating Scenario: OS7 Shutdown for Turbine #1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
2	CO <= 34.5 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NO _x (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
4	NO _x (Total) <= 1.5 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
6	VOC (Total) <= 4.5 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 18 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
8	TSP <= 0.072 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.29 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-2.5 (Total) <= 0.29 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	SO ₂ <= 0.13 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Acetaldehyde <= 0.03 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acrolein <= 0.00482 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Benzene <= 0.00904 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Formaldehyde <= 91 ppbv at 15% oxygen, dry basis. [40 CFR 63.6100]	None.	None.	None.
16	Formaldehyde <= 0.00405 lb per event based on 40 CFR 63.6100. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Propylene oxide <= 0.02 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Methane <= 19.5 lb per event based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Shutdown Period <= 15 minutes. [N.J.A.C. 7:27-22.16(a)]	None.	Shutdown Period: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event The permittee shall maintain records of the date, time, and duration of each shutdown period. [40 CFR 60.7(b)]	None.
20	Number of shutdowns <= 150 events per year. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain records of the total number of startups during each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.

BOP210001

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

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Operating Scenario: OS8 Shutdown for Turbine #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
2	CO <= 34.5 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NO _x (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
4	NO _x (Total) <= 1.5 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
6	VOC (Total) <= 4.5 lb per event based on information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 18 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
8	TSP <= 0.072 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.29 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-2.5 (Total) <= 0.29 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	SO ₂ <= 0.13 lb per event based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Acetaldehyde <= 0.03 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acrolein <= 0.00482 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Benzene <= 0.00904 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Formaldehyde <= 91 ppbv at 15% oxygen, dry basis. [40 CFR 63.6100]	None.	None.	None.
16	Formaldehyde <= 0.00405 lb per event based on 40 CFR 63.6100. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Propylene oxide <= 0.02 lb per event based on information from the manufacturer and AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Methane <= 19.5 lb per event based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Shutdown Period <= 15 minutes. [N.J.A.C. 7:27-22.16(a)]	None.	Shutdown Period: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event The permittee shall maintain records of the date, time, and duration of each shutdown period. [40 CFR 60.7(b)]	None.
20	Number of shutdowns <= 150 events per year. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain records of the total number of startups during each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Operating Scenario: OS9 Turbine #1 Commissioning

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Hours of Operation <= 50 hours. Duration of commissioning is limited to 50 hours or the hour in which natural gas transportation rates take effect, whichever comes first. Commissioning is defined as the period beginning with the initiation of operation of the turbine and ending with the natural gas transportation rates taking effect. [N.J.A.C. 7:27-22.16(a)]	None.	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain the following records: 1. Date the commissioning period begins; 2. Date and time the turbine begins operation each day it is operated during the commissioning period; 3. Date and time the turbine ceases operation each day it is operated during the commissioning period; and 4. Date the commissioning period ends. [N.J.A.C. 7:27-22.16(o)]	Submit the required air permit application(s): Upon occurrence of event. The permittee shall submit an application to remove this Operating Scenario upon completion of the turbine commissioning. [N.J.A.C. 7:27-22.16(o)]
2	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.
3	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
4	CO <= 4.71 lb/hr based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NO _x (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
6	NO _x (Total) <= 4.64 lb/hr based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO ₂ <= 0.51 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 18 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	TSP <= 0.29 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	PM-10 (Total) <= 1.14 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) <= 1.14 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
13	VOC (Total) <= 0.9 lb/hr based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U100 Natural Gas Fired Combustion Turbines #1 and #2

Operating Scenario: OS10 Turbine #2 Commissioning

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Hours of Operation <= 50 hours. Duration of commissioning is limited to 50 hours or the hour in which natural gas transportation rates take effect, whichever comes first. Commissioning is defined as the period beginning with the initiation of operation of the turbine and ending with the natural gas transportation rates taking effect. [N.J.A.C. 7:27-22.16(a)]	None.	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain the following records: 1. Date the commissioning period begins; 2. Date and time the turbine begins operation each day it is operated during the commissioning period; 3. Date and time the turbine ceases operation each day it is operated during the commissioning period; and 4. Date the commissioning period ends. [N.J.A.C. 7:27-22.16(o)]	Submit the required air permit application(s): Upon occurrence of event. The permittee shall submit an application to remove this Operating Scenario upon completion of the turbine commissioning. [N.J.A.C. 7:27-22.16(o)]
2	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.
3	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
4	CO <= 4.71 lb/hr based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NO _x (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
6	NO _x (Total) <= 4.64 lb/hr based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO ₂ <= 0.51 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 18 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	TSP <= 0.29 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	PM-10 (Total) <= 1.14 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) <= 1.14 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
13	VOC (Total) <= 0.9 lb/hr based on the information from the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Transo - Compressor Station 505

Facility ID (AIMS): 35742

Street 623 CASE RD
Address: NESHANIC STA
NESHANIC STATION, NJ 08853-4171

Mailing 623 CASE RD
Address: NESHANIC STA
NESHANIC STATION, NJ 08853-4171

County: Somerset
Location Located on approximately 77 acres in
Description: Branchburg Township.

State Plane Coordinates:	
X-Coordinate:	428,560
Y-Coordinate:	619,515
Units:	Feet
Datum:	NAD83
Source Org.:	DEP-GIS
Source Type:	DEP Program Database

Industry:	
Primary SIC:	4922
Secondary SIC:	
NAICS:	486210

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

Contact Type: Air Permit Information Contact

Organization: Transcontinental Gas Pipe Line Company, LLC **Org. Type:** Corporation
Name: Michael Hahn **NJ EIN:** 89220500000
Title: Environmental Specialist
Phone: (609) 285-2407 x **Mailing Address:** 99 Farber Road
Fax: (713) 215-3905 x Princeton, NJ 08540
Other: (267) 207-1778 x
Type: Mobile
Email: Michael.Hahn@williams.com

Contact Type: Fees/Billing Contact

Organization: Transcontinental Gas Pipe Line Company, LLC **Org. Type:** Corporation
Name: Michael Hahn **NJ EIN:** 89220500000
Title: Environmental Specialist
Phone: (609) 285-2407 x **Mailing Address:** 99 Farber Road
Fax: (713) 215-3905 x Ste. 900
Other: (267) 207-1778 x Princeton, NJ 08540
Type: Mobile
Email: Michael.Hahn@williams.com

Contact Type: Operator

Organization: Transcontinental Gas Pipe Line Corp. **Org. Type:** Corporation
Name: Transcontinental Gas Pipe Line Corp. **NJ EIN:** 89220500000
Title: Compressor Station 505
Phone: (713) 215-2000 x **Mailing Address:** P.O. Box 1396
Fax: (713) 215-3905 x P.O. Box 1396
Other: () - x Houston, TX 77251-1396
Type:
Email:

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Owner (Current Primary)

Organization: Transcontinental Gas Pipe Line Corp.

Org. Type: Corporation

Name: Transcontinental Gas Pipe Line Corp.

NJ EIN: 89220500000

Title: Compressor Station 505

Phone: (713) 215-2000 x

Mailing Address: 2800 Post Oak Blvd., Suite 900

Fax: () - x

P.O. Box 1396

Other: () - x

Houston, TX 77251-1396

Type:

Email:

Contact Type: Responsible Official

Organization: Transcontinental Gas Pipe Line Company, LLC

Org. Type: Corporation

Name: Glen Jasek

NJ EIN: 89220500000

Title: VP GM Eastern Interstates

Phone: (713) 215-2134 x

Mailing Address: 2800 Post Oak Blvd

Fax: () - x

Suite 900

Other: () - x

P.O. Box 1396

Houston, TX 77251

Type:

Email: Glen.Jasek@williams.com

TRANSCO - COMPRESSOR STATION 505 (35742)
BOP210001

Date: 07/01/2022

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)
FG2	Piping Component Fugitives	Entire Facility	0.171							0.00002620	
Total			0.171	0.000	0.000	0.000	0.000	0.000	0.000	0.00002620	0.000

TRANSCO - COMPRESSOR STATION 505 (35742)
BOP210001

Date: 7/1/2022

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	250 gallon diesel tank	Storage Vessel		0.010								
IS2	Various ethylene glycol storage tanks and vessels < 10,000 gal and <0.02 psia	Storage Vessel		0.010								
IS3	Lubrication oil storage tanks < 10,000 gal and <0.02 psia	Storage Vessel		0.010								
IS6	(4) 85-Gallon each Valve Operator Hydraulic Oil Tank 2,000 gal and <0.02 psia at 70 degree F.	Storage Vessel		0.010								
IS7	Used lubrication oil tank < 10,000 gal and <0.02 psia	Storage Vessel		0.010								
IS8	Wastewater holding tank, Lubrication oil sheen < 100 ppb TXs and < 3500 ppb VOCs	Other Equipment		0.010								
IS9	Unheated Parts Washer < 6.00 sq.ft top opening area or < 100. gal capacity.	Cleaning Machine (Open Top: Cold)		0.010								

TRANSCO - COMPRESSOR STATION 505 (35742)
BOP210001

Date: 7/1/2022

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)
IS10	Natural Gas Fired Equipment (< 1MMBtu/hr)	Fuel Combustion Equipment (Other)	Shop and Office Comfort Heaters and Hot Water Heaters	0.220	4.080	3.420	0.020	0.310	0.310	0.000	0.08000000	0.000
IS11	Oily Water Storage Tank	Storage Vessel		0.001								
IS12	Tank Truck Loadout	Other Equipment		0.000								
IS13	MLU-09 Compressor Blowdown	Other Equipment		0.520								62.000
IS14	MLU-10 Compressor Blowdown	Other Equipment		0.520								62.000
IS15	Suction Header Blowdowns	Other Equipment		0.360								43.000
IS16	Discharge Header Blowdowns	Other Equipment		0.360								43.000
IS17	Pipeline Blowdown Events	Other Equipment		0.000								0.000
Total				2.051	4.080	3.420	0.020	0.310	0.310	0.000	0.08000000	210.000

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

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E1	M/L Unit 1	Reciprocating Compressor Engine, Ingersoll-Rand 412-KVS, 2050 hp.	Stationary Reciprocating Engine	125985		No		
E2	M/L Unit 2	Reciprocating Compressor Engine, Ingersoll-Rand 412-KVS, 2050 hp.	Stationary Reciprocating Engine	127194		No		
E3	M/L Unit 3	Reciprocating Compressor Engine, Ingersoll-Rand 412-KVS, 2050 hp.	Stationary Reciprocating Engine	125984		No		
E4	M/L Unit 4	Reciprocating Compressor Engine, Ingersoll-Rand 412-KVS, 2050 hp.	Stationary Reciprocating Engine	125983		No		
E5	M/L Unit 5	Reciprocating Compressor Engine, Ingersoll-Rand 412-KVS, 2050 hp.	Stationary Reciprocating Engine	125982		No		
E6	M/L Unit 6	Reciprocating Compressor Engine, Ingersoll-Rand 412-KVS, 2050 hp.	Stationary Reciprocating Engine	125981		No		
E7	M/L Unit 7	Reciprocating Compressor Engine, Ingersoll-Rand 412-KVS, 2050 hp.	Stationary Reciprocating Engine	124467		No		
E8	M/L Unit 8	Reciprocating Compressor Engine, Ingersoll-Rand 412-KVS, 2050 hp.	Stationary Reciprocating Engine	125980		No		
E9	Aux Unit 1	Emergency Generator Waukesha 5108 GL 1072 hp.	Emergency Generator	127940		No		

**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
E10	BLR 1	Cyclotherm Boiler, 3.5 MMBtu/hr	Boiler	P1968		Yes		
E11	T-1	Natural Gas Liquids Storage Tank	Storage Vessel	108883		No		
E12	Aux Unit 2	Emergency Generator 2	Emergency Generator			No		
E13	TANK-01	Natural Gas Condensate Liquids Tank	Storage Vessel			No		
E1001	M/L Unit 9	Natural Gas Fired Turbine #1	Combustion Turbine			No		
E1002	M/L Unit 10	Natural Gas Fired Turbine #2	Combustion Turbine			No		

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E1 (Stationary Reciprocating Engine)
Print Date: 5/11/2022

Make:	Ingersol Rand
Manufacturer:	Ingersol Rand
Model:	KVS-412
Maximum Rated Gross Heat Input (MMBtu/hr):	18
Class:	Lean Burn
Duty:	Base Loaded
Description:	
Load Range (%):	
Stroke:	4-Stroke
Power Output (BHP):	2050
Electric Output (KW):	N/A
Compression Ratio:	N/Ave
Ignition Type:	
Engine Speed (RPM):	300 to330
Engine Exhaust Temperature (deg F):	850
Air to Fuel Ratio at Peak Load:	N/Ave
Lambda Factor (scfm/scfm):	N/Ave
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	8780 an approximation only
Output Type:	
Heat to Power Ratio:	N/Ave
Is the Engine Using a Turbocharger?	Yes
Is the Engine Using an Aftercooler?	Yes
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	Yes
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	
Have you attached a diagram showing the location and/or configuration of this equipment?	

Have you attached any
manufacturer's data or
specifications which may aid
in the review of this
application?

Comments:

Include Emission Rates on the Potential to Emit Screen for each
Contaminant in grams/BHP-hr and ppm_{dv} @7% O₂ in addition
to lbs/hr and tons/yr.

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E2 (Stationary Reciprocating Engine)
Print Date: 5/11/2022

Make:	Ingersol Rand
Manufacturer:	Ingersol Rand
Model:	KVS-412
Maximum Rated Gross Heat Input (MMBtu/hr):	18
Class:	Lean Burn
Duty:	Base Loaded
Description:	
Load Range (%):	
Stroke:	4-Stroke
Power Output (BHP):	2050
Electric Output (KW):	N/A
Compression Ratio:	N/Ave
Ignition Type:	
Engine Speed (RPM):	300 to330
Engine Exhaust Temperature (deg F):	850
Air to Fuel Ratio at Peak Load:	N/Ave
Lambda Factor (scfm/scfm):	N/Ave
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	8780 an approximation only
Output Type:	
Heat to Power Ratio:	N/Ave
Is the Engine Using a Turbocharger?	Yes
Is the Engine Using an Aftercooler?	Yes
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	Yes
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	
Have you attached a diagram showing the location and/or configuration of this equipment?	

Have you attached any manufacturer's data or specifications which may aid in the review of this application?

Comments:

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppm_{dv} @7% O₂ in addition to lbs/hr and tons/yr.

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E3 (Stationary Reciprocating Engine)
Print Date: 5/11/2022

Make:	Ingersol Rand
Manufacturer:	Ingersol Rand
Model:	KVS-412
Maximum Rated Gross Heat Input (MMBtu/hr):	18
Class:	Lean Burn
Duty:	Base Loaded
Description:	
Load Range (%):	
Stroke:	4-Stroke
Power Output (BHP):	2050
Electric Output (KW):	N/A
Compression Ratio:	N/Ave
Ignition Type:	
Engine Speed (RPM):	300 to330
Engine Exhaust Temperature (deg F):	850
Air to Fuel Ratio at Peak Load:	N/Ave
Lambda Factor (scfm/scfm):	N/Ave
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	8780 an approximation only
Output Type:	
Heat to Power Ratio:	N/Ave
Is the Engine Using a Turbocharger?	Yes
Is the Engine Using an Aftercooler?	Yes
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	Yes
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	
Have you attached a diagram showing the location and/or configuration of this equipment?	

Have you attached any manufacturer's data or specifications which may aid in the review of this application?

Comments:

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppm_{dv} @7% O₂ in addition to lbs/hr and tons/yr.

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E4 (Stationary Reciprocating Engine)
Print Date: 5/11/2022

Make:	Ingersol Rand
Manufacturer:	Ingersol Rand
Model:	KVS-412
Maximum Rated Gross Heat Input (MMBtu/hr):	18
Class:	Lean Burn
Duty:	Base Loaded
Description:	
Load Range (%):	
Stroke:	4-Stroke
Power Output (BHP):	2050
Electric Output (KW):	N/A
Compression Ratio:	N/Ave
Ignition Type:	
Engine Speed (RPM):	300 to330
Engine Exhaust Temperature (deg F):	850
Air to Fuel Ratio at Peak Load:	N/Ave
Lambda Factor (scfm/scfm):	N/Ave
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	8780 an approximation only
Output Type:	
Heat to Power Ratio:	N/Ave
Is the Engine Using a Turbocharger?	Yes
Is the Engine Using an Aftercooler?	Yes
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	Yes
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	
Have you attached a diagram showing the location and/or configuration of this equipment?	

Have you attached any
manufacturer's data or
specifications which may aid
in the review of this
application?



Comments:



Include Emission Rates on the Potential to Emit Screen for each
Contaminant in grams/BHP-hr and ppm_{dv} @7% O₂ in addition
to lbs/hr and tons/yr.

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E5 (Stationary Reciprocating Engine)
Print Date: 5/11/2022

Make:	Ingersol Rand
Manufacturer:	Ingersol Rand
Model:	KVS-412
Maximum Rated Gross Heat Input (MMBtu/hr):	18
Class:	Lean Burn
Duty:	Base Loaded
Description:	
Load Range (%):	
Stroke:	4-Stroke
Power Output (BHP):	2050
Electric Output (KW):	N/A
Compression Ratio:	N/Ave
Ignition Type:	
Engine Speed (RPM):	300 to330
Engine Exhaust Temperature (deg F):	850
Air to Fuel Ratio at Peak Load:	N/Ave
Lambda Factor (scfm/scfm):	N/Ave
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	8780 an approximation only
Output Type:	
Heat to Power Ratio:	N/Ave
Is the Engine Using a Turbocharger?	Yes
Is the Engine Using an Aftercooler?	Yes
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	Yes
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	
Have you attached a diagram showing the location and/or configuration of this equipment?	

Have you attached any
manufacturer's data or
specifications which may aid
in the review of this
application?



Comments:



Include Emission Rates on the Potential to Emit Screen for each
Contaminant in grams/BHP-hr and ppm_{dv} @7% O₂ in addition
to lbs/hr and tons/yr.

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E6 (Stationary Reciprocating Engine)
Print Date: 5/11/2022

Make:	Ingersol Rand
Manufacturer:	Ingersol Rand
Model:	KVS-412
Maximum Rated Gross Heat Input (MMBtu/hr):	18
Class:	Lean Burn
Duty:	Base Loaded
Description:	
Load Range (%):	
Stroke:	4-Stroke
Power Output (BHP):	2050
Electric Output (KW):	N/A
Compression Ratio:	N/Ave
Ignition Type:	
Engine Speed (RPM):	300 to330
Engine Exhaust Temperature (deg F):	850
Air to Fuel Ratio at Peak Load:	N/Ave
Lambda Factor (scfm/scfm):	N/Ave
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	8780 an approximation only
Output Type:	
Heat to Power Ratio:	N/Ave
Is the Engine Using a Turbocharger?	Yes
Is the Engine Using an Aftercooler?	Yes
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	Yes
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	
Have you attached a diagram showing the location and/or configuration of this equipment?	

Have you attached any
manufacturer's data or
specifications which may aid
in the review of this
application?

Comments:

Include Emission Rates on the Potential to Emit Screen for each
Contaminant in grams/BHP-hr and ppm_{dv} @7% O₂ in addition
to lbs/hr and tons/yr.

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E7 (Stationary Reciprocating Engine)
Print Date: 5/11/2022

Make:	Ingersol Rand
Manufacturer:	Ingersol Rand
Model:	KVS-412
Maximum Rated Gross Heat Input (MMBtu/hr):	18
Class:	Lean Burn
Duty:	Base Loaded
Description:	
Load Range (%):	
Stroke:	4-Stroke
Power Output (BHP):	2050
Electric Output (KW):	N/A
Compression Ratio:	N/Ave
Ignition Type:	
Engine Speed (RPM):	300 to330
Engine Exhaust Temperature (deg F):	850
Air to Fuel Ratio at Peak Load:	N/Ave
Lambda Factor (scfm/scfm):	N/Ave
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	8780 an approximation only
Output Type:	
Heat to Power Ratio:	N/Ave
Is the Engine Using a Turbocharger?	Yes
Is the Engine Using an Aftercooler?	Yes
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	Yes
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	
Have you attached a diagram showing the location and/or configuration of this equipment?	

Have you attached any
manufacturer's data or
specifications which may aid
in the review of this
application?



Comments:



Include Emission Rates on the Potential to Emit Screen for each
Contaminant in grams/BHP-hr and ppm_{dv} @7% O₂ in addition
to lbs/hr and tons/yr.

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E8 (Stationary Reciprocating Engine)
Print Date: 5/11/2022

Make:	Ingersol Rand
Manufacturer:	Ingersol Rand
Model:	KVS-412
Maximum Rated Gross Heat Input (MMBtu/hr):	18
Class:	Lean Burn
Duty:	Base Loaded
Description:	
Load Range (%):	
Stroke:	4-Stroke
Power Output (BHP):	2050
Electric Output (KW):	N/A
Compression Ratio:	N/Ave
Ignition Type:	
Engine Speed (RPM):	300 to330
Engine Exhaust Temperature (deg F):	850
Air to Fuel Ratio at Peak Load:	N/Ave
Lambda Factor (scfm/scfm):	N/Ave
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	8780 an approximation only
Output Type:	
Heat to Power Ratio:	N/Ave
Is the Engine Using a Turbocharger?	Yes
Is the Engine Using an Aftercooler?	Yes
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	Yes
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	
Have you attached a diagram showing the location and/or configuration of this equipment?	

Have you attached any
manufacturer's data or
specifications which may aid
in the review of this
application?



Comments:



Include Emission Rates on the Potential to Emit Screen for each
Contaminant in grams/BHP-hr and ppm_{dv} @7% O₂ in addition
to lbs/hr and tons/yr.

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Will the equipment be used in excess of 500 hours per year?

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

Have you attached any manufacturer's data or specifications which may aid in the review of this application?

Comments:

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E10 (Boiler)

Print Date: 5/11/2022

Make:	<input type="text" value="Cyclotherm Boiler Steam Generator"/>
Manufacturer:	<input type="text" value="Cyclotherm"/>
Model:	<input type="text" value="2800-LN-43"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="3.50"/>
Boiler Type:	<input type="text" value=""/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value=""/>
Steam Output (lb/hr):	<input type="text" value=""/>
Fuel Firing Method:	<input type="text" value=""/>
Description (if other):	<input type="text" value=""/>
Draft Type:	<input type="text" value=""/>
Heat Exchange Type:	<input type="text" value=""/>

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

Low NOx Burner:	<input type="checkbox"/>	Type: <input type="text" value=""/>
Staged Air Combustion:	<input type="checkbox"/>	
Flue Gas Recirculation (FGR):	<input type="checkbox"/>	Amount (%): <input type="text" value=""/>

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:

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E11 (Storage Vessel)
Print Date: 5/11/2022

What type of contents is this storage vessel equipped to contain by design?

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof
Bottom) (ft):

Length (ft):

12.00

Width (ft):

Diameter (ft):

9.50

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

50.00

Units:

gal/min

Does the storage vessel have
a roof or an open top?

Roof

Roof Type:

Vertical fixed roof tank

Roof Height (From Roof
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E11 (Storage Vessel)

Print Date: 5/11/2022

Does the storage vessel
have a Conservation Vent?

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:

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E12 (Emergency Generator)
Print Date: 5/11/2022

Make: (E2T00214)-Engine (G2L00450)-Generator
Manufacturer: Caterpillar
Model: G3512 SI TA SCAC

Maximum rated Gross Heat
Input (MMBtu/hr-HHV): 18.27

Will the equipment be used
in excess of 500 hours per
year? ☐ Yes
☒ No

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:

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E13 (Storage Vessel)
Print Date: 5/11/2022

What type of contents is this storage vessel equipped to contain by design?

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

5,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof
Bottom) (ft):

Length (ft):

12.00

Width (ft):

Diameter (ft):

9.50

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

50.00

Units:

gal/min

Does the storage vessel have
a roof or an open top?

Roof

Roof Type:

Vertical fixed roof tank

Roof Height (From Roof
Bottom
to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

No

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 E13 (Storage Vessel)

Print Date: 5/11/2022

Does the storage vessel
have a Conservation Vent?

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:

35742 TRANSOCO - COMPRESSOR STATION 505 BOP210001 E1001 (Combustion Turbine)
Print Date: 5/11/2022

Make:	Compressor Turbine #1		
Manufacturer:	Solar		
Model:	Mars 100		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	150.75		
Type of Turbine:	Industrial	Description:	
Type of Cycle:	Simple-Cycle	Description:	
Industrial Application:	Compressor	Description:	
Power Output:	16,000.00	Units:	BHP
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 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 checked="" type="radio"/> Yes <input type="radio"/> No		
Comments:	Maximum rated gross heat input represents normal operation.		

35742 TRANSOCO - COMPRESSOR STATION 505 BOP210001 E1002 (Combustion Turbine)
Print Date: 5/11/2022

Make:	Compressor Turbine #2		
Manufacturer:	Solar		
Model:	Mars 100		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	150.75		
Type of Turbine:	Industrial	Description:	
Type of Cycle:	Simple-Cycle	Description:	
Industrial Application:	Compressor	Description:	
Power Output:	16,000.00	Units:	BHP
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 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 checked="" type="radio"/> Yes <input type="radio"/> No		
Comments:	Maximum rated gross heat input represents normal operation.		

**New Jersey Department of Environmental Protection
Control Device Inventory**

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD1	Egn 1 OxiCat	Reciprocating Compressor Engine 1 Oxidation Catalyst	Oxidizer (Catalytic)	9/1/2012	No		
CD2	Egn 2 OxiCat	Reciprocating Compressor Engine 2 Oxidation Catalyst	Oxidizer (Catalytic)	5/11/2015	No		
CD3	Egn 3 OxiCat	Reciprocating Compressor Engine 3 Oxidation Catalyst	Oxidizer (Catalytic)	9/1/2012	No		
CD4	Egn 4 OxiCat	Reciprocating Compressor Engine 4 Oxidation Catalyst	Oxidizer (Catalytic)	5/11/2015	No		
CD1001	CO oxycat 1	Turbine 1 CO Oxidation Catalyst	Other		No		
CD1002	SCR 1	Turbine 1 SCR	Selective Catalytic Reduction		No		
CD1003	CO oxycat 2	Turbine 2 CO Oxidation Catalyst	Other		No		
CD1004	SCR 2	Turbine 2 SCR	Selective Catalytic Reduction		No		

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 CD1 (Oxidizer (Catalytic))
Print Date: 5/11/2022

Make:	<input type="text"/>
Manufacturer:	DCL International
Model:	DC68.1-20 IGS
Minimum Inlet Temperature (°F):	<input type="text" value="750"/>
Maximum Inlet Temperature (°F)	<input type="text" value="1350"/>
Minimum Outlet Temperature (°F)	<input type="text"/>
Maximum Outlet Temperature (°F):	<input type="text"/>
Minimum Residence Time (sec)	<input type="text"/>
Fuel Type:	Natural gas <input type="button" value="v"/>
Description:	<div></div>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>
Minimum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Maximum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Catalyst Material:	<div>Stainless steel matrix, alumina wash coat, precious metal coated (primarily platinum and palladium)</div>
Form of Catalyst:	Other <input type="button" value="v"/>
Description:	1x Circular element (DC68)
Minimum Expected Life of Catalyst:	<input type="text" value="8000"/>
Units:	hours <input type="button" value="v"/>
Volume of Catalyst (ft³):	<input type="text" value="2.91"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text" value="1"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<div></div>
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 CD2 (Oxidizer (Catalytic))
Print Date: 5/11/2022

Make:	<input type="text"/>
Manufacturer:	DCL International
Model:	DC68.1-20 IGS
Minimum Inlet Temperature (°F):	<input type="text" value="750"/>
Maximum Inlet Temperature (°F)	<input type="text" value="1350"/>
Minimum Outlet Temperature (°F)	<input type="text"/>
Maximum Outlet Temperature (°F):	<input type="text"/>
Minimum Residence Time (sec)	<input type="text"/>
Fuel Type:	Natural gas <input type="button" value="v"/>
Description:	<div></div>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>
Minimum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Maximum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Catalyst Material:	<div>Stainless steel matrix, alumina wash coat, precious metal coated (primarily platinum and palladium)</div>
Form of Catalyst:	Other <input type="button" value="v"/>
Description:	1x Circular element (DC68)
Minimum Expected Life of Catalyst:	<input type="text" value="8000"/>
Units:	hours <input type="button" value="v"/>
Volume of Catalyst (ft³):	<input type="text" value="2.91"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text" value="1"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<div></div>
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 CD3 (Oxidizer (Catalytic))
Print Date: 5/11/2022

Make:	<input type="text"/>
Manufacturer:	DCL International
Model:	DC68.1-20 IGS
Minimum Inlet Temperature (°F):	<input type="text" value="750"/>
Maximum Inlet Temperature (°F)	<input type="text" value="1350"/>
Minimum Outlet Temperature (°F)	<input type="text"/>
Maximum Outlet Temperature (°F):	<input type="text"/>
Minimum Residence Time (sec)	<input type="text"/>
Fuel Type:	Natural gas <input type="button" value="v"/>
Description:	<div></div>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>
Minimum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Maximum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Catalyst Material:	<div>Stainless steel matrix, alumina wash coat, precious metal coated (primarily platinum and palladium)</div>
Form of Catalyst:	Other <input type="button" value="v"/>
Description:	1x Circular element (DC68)
Minimum Expected Life of Catalyst:	<input type="text" value="8000"/>
Units:	hours <input type="button" value="v"/>
Volume of Catalyst (ft³):	<input type="text" value="2.91"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text" value="1"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<div></div>
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 CD4 (Oxidizer (Catalytic))
Print Date: 5/11/2022

Make:	<input type="text"/>
Manufacturer:	DCL International
Model:	DC68.1-20 IGS
Minimum Inlet Temperature (°F):	<input type="text" value="750"/>
Maximum Inlet Temperature (°F)	<input type="text" value="1350"/>
Minimum Outlet Temperature (°F)	<input type="text"/>
Maximum Outlet Temperature (°F):	<input type="text"/>
Minimum Residence Time (sec)	<input type="text"/>
Fuel Type:	Natural gas <input type="button" value="v"/>
Description:	<div></div>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>
Minimum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Maximum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Catalyst Material:	<div>Stainless steel matrix, alumina wash coat, precious metal coated (primarily platinum and palladium)</div>
Form of Catalyst:	Other <input type="button" value="v"/>
Description:	1x Circular element (DC68)
Minimum Expected Life of Catalyst:	<input type="text" value="8000"/>
Units:	hours <input type="button" value="v"/>
Volume of Catalyst (ft³):	<input type="text" value="2.91"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text" value="1"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<div></div>
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 CD1001 (Other)

Print Date: 5/11/2022

Make: Turbine #1 CO Oxidation Catalyst

Manufacturer:

Model:

Maximum Air Flow Rate to Control Device (acfm): 220000

Maximum Temperature of Vapor Stream to Control Device (°F): 825

Minimum Temperature of Vapor Stream to Control Device (°F): 850

Minimum Moisture Content of Vapor Stream to Control Device (%):

Minimum Pressure Drop Across Control Device (in. H2O):

Maximum Pressure Drop Across Control Device (in. H2O):

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing? ☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? ☐ Yes ☒ No

Have you attached a diagram showing the location and/or configuration of this control apparatus? ☐ Yes ☒ No

Comments:

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 CD1002 (Selective Catalytic Reduction)
Print Date: 5/11/2022

Make:	<input type="text" value="Turbine #1 SCR"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Minimum Temperature at Catalyst Bed (°F):	<input type="text" value="500"/>
Maximum Temperature at Catalyst Bed (°F):	<input type="text" value="930"/>
Minimum Temperature at Reagent Injection Point (°F):	<input type="text" value="500"/>
Maximum Temperature at Reagent Injection Point (°F):	<input type="text" value="930"/>
Type of Reagent:	<input type="text" value="Urea"/> ▼
Description:	<input type="text"/>
Chemical Formula of Reagent:	<input type="text"/>
Minimum Reagent Charge Rate (gpm):	<input type="text"/>
Maximum Reagent Charge Rate (gpm):	<input type="text" value="0.1"/>
Minimum Concentration of Reagent in Solution (% Volume):	<input type="text" value="32.5"/>
Minimum NOx to Reagent Mole Ratio:	<input type="text"/>
Maximum NOx to Reagent Mole Ratio:	<input type="text"/>
Maximum Anticipated Ammonia Slip (ppm):	<input type="text" value="10"/>
Type of Catalyst:	<input type="text" value="Corrugated Monolith Catalyst"/>
Volume of Catalyst (ft³):	<input type="text" value="250"/>
Form of Catalyst:	<input type="text"/>
Anticipated Life of Catalyst:	<input type="text"/>
Units:	<input type="text"/> ▼
Have you attached a catalyst replacement schedule?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Method of Determining Breakthrough:	<div style="border: 1px solid black; height: 100px;"></div>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<div style="border: 1px solid black; height: 100px;"></div>
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 CD1002 (Selective Catalytic Reduction)
Print Date: 5/11/2022

Comments:

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 CD1003 (Other)

Print Date: 5/11/2022

Make: Turbine #2 CO Oxidation Catalyst

Manufacturer:

Model:

Maximum Air Flow Rate to Control Device (acfm): 220000

Maximum Temperature of Vapor Stream to Control Device (°F): 825

Minimum Temperature of Vapor Stream to Control Device (°F): 850

Minimum Moisture Content of Vapor Stream to Control Device (%):

Minimum Pressure Drop Across Control Device (in. H2O):

Maximum Pressure Drop Across Control Device (in. H2O):

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing? ☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? ☐ Yes ☒ No

Have you attached a diagram showing the location and/or configuration of this control apparatus? ☐ Yes ☒ No

Comments:

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 CD1004 (Selective Catalytic Reduction)
Print Date: 5/11/2022

Make:	<input type="text" value="Turbine #2 SCR"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Minimum Temperature at Catalyst Bed (°F):	<input type="text" value="500"/>
Maximum Temperature at Catalyst Bed (°F):	<input type="text" value="930"/>
Minimum Temperature at Reagent Injection Point (°F):	<input type="text" value="500"/>
Maximum Temperature at Reagent Injection Point (°F):	<input type="text" value="930"/>
Type of Reagent:	<input type="text" value="Urea"/> ▼
Description:	<input type="text"/>
Chemical Formula of Reagent:	<input type="text"/>
Minimum Reagent Charge Rate (gpm):	<input type="text"/>
Maximum Reagent Charge Rate (gpm):	<input type="text" value="0.1"/>
Minimum Concentration of Reagent in Solution (% Volume):	<input type="text" value="32.5"/>
Minimum NOx to Reagent Mole Ratio:	<input type="text"/>
Maximum NOx to Reagent Mole Ratio:	<input type="text"/>
Maximum Anticipated Ammonia Slip (ppm):	<input type="text" value="10"/>
Type of Catalyst:	<input type="text" value="Corrugated Monolith Catalyst"/>
Volume of Catalyst (ft³):	<input type="text" value="250"/>
Form of Catalyst:	<input type="text"/>
Anticipated Life of Catalyst:	<input type="text"/>
Units:	<input type="text"/> ▼
Have you attached a catalyst replacement schedule?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Method of Determining Breakthrough:	<div style="border: 1px solid black; height: 100px;"></div>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<div style="border: 1px solid black; height: 100px;"></div>
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

35742 TRANSCO - COMPRESSOR STATION 505 BOP210001 CD1004 (Selective Catalytic Reduction)
Print Date: 5/11/2022

Comments:

TRANSCO - COMPRESSOR STATION 505 (35742)
BOP210001

Date: 7/1/2022

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1	M/L Unit 1	Reciprocating Compressor Engine1	Round	20	32	520	550.0	500.0	600.0	13,300.0	13,000.0	13,600.0	Up	
PT2	M/L Unit 2	Reciprocating Compressor Engine2	Round	20	32	540	550.0	500.0	600.0	13,300.0	13,000.0	13,600.0	Up	
PT3	M/L Unit 3	Reciprocating Compressor Engine3	Round	20	32	570	550.0	500.0	600.0	13,300.0	13,000.0	13,600.0	Up	
PT4	M/L Unit 4	Reciprocating Compressor Engine4	Round	20	32	590	550.0	500.0	600.0	13,300.0	13,000.0	13,600.0	Up	
PT5	M/L Unit 5	Reciprocating Compressor Engine5		20	32	590		500.0	600.0		13,000.0	13,600.0	Up	
PT6	M/L Unit 6	Reciprocating Compressor Engine6		20	32	600		500.0	600.0		13,000.0	13,600.0	Up	
PT7	M/L Unit 7	Reciprocating Compressor Engine7		20	32	610		500.0	600.0		13,000.0	13,600.0	Up	
PT8	M/L Unit 8	Reciprocating Compressor Engine8		20	32	620		500.0	600.0		13,000.0	13,600.0	Up	
PT9	Aux Unit 1	Waukesha 5108G L 1072 hp.		16	29	500		580.0	780.0		2,300.0	2,900.0	Up	
PT10	BIR 1	Cyclotherm Boiler		15	19	500		400.0	500.0		1,200.0	1,600.0	Up	
PT11	T-1	Natural Gas Liquids Storage Tank				400								
PT12	Aux Unit 2	Emergency Generator 2	Round	14	21	242	1,100.0	1,100.0	1,100.0	13,300.0	13,000.0	13,600.0	Up	
PT13	Tank-01	Natural Gas Condensate Liquids Tank	Round				72.0	32.0	100.0	0.0	0.0	0.0	Up	
PT1001	Turbine #1	Combustion Turbine #1 Emissions	Round	122	50	140	889.0	858.0	950.0	196,000.0	190,000.0	200,000.0	Up	
PT1002	Turbine #2	Combustion Turbine #2 Emissions	Round	122	50	140	889.0	858.0	950.0	196,000.0	190,000.0	200,000.0	Up	

TRANSCO - COMPRESSOR STATION 505 (35742)
BOP210001

Date: 7/1/2022

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

U 1 M/L 1 - 8 Reciprocating Compressor Engines 1 through 8, Ingersoll Rand 412 - KVS, each 2050 HP natural gas fired lean-burn engine.

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	M/L Unit 1	IC Engine 1, Natural Gas Burning controlled by catalytic oxidizer	Normal - Steady State	E1	CD1 (P)	PT1								
OS2	M/L Unit 2	IC Engine 2, Natural Gas Burning controlled by catalytic oxidizer	Normal - Steady State	E2	CD2 (P)	PT2								
OS3	M/L Unit 3	C Engine 3C Engine 2, Natural Gas Burning controlled by catalytic oxidizer	Normal - Steady State	E3	CD3 (P)	PT3								
OS4	M/L Unit 4	IC Engine 4, Natural Gas Burning controlled by catalytic oxidizer	Normal - Steady State	E4	CD4 (P)	PT4								
OS5	M/L Unit 5	IC Engine 5, Natural Gas Burning	Normal - Steady State	E5		PT5								
OS6	M/L Unit 6	IC Engine 6, Natural Gas Burning	Normal - Steady State	E6		PT6								
OS7	M/L Unit 7	IC Engine 7, Natural Gas Burning	Normal - Steady State	E7		PT7								
OS8	M/L Unit 8	IC Engine 8, Natural Gas Burning	Normal - Steady State	E8		PT8								

TRANSCO - COMPRESSOR STATION 505 (35742)
BOP210001

Date: 7/1/2022

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

U 9 Aux Unit 1 9 MM Btu/hr Natural gas fired RICE with 1072 hp output

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	Aux Unit 1	Waukesha 5108 GL, Natural Gas burning	Standby	E9		PT9								
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U 10 BLR 1 3.5 MMBtu/hr Natural Gas Cyclotherm Boiler, 3.5 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	BLR 1	Cyclotherm Boiler, Natural Gas burning	Normal - Steady State	E10		PT10								
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TRANSCO - COMPRESSOR STATION 505 (35742)
BOP210001

Date: 7/1/2022

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

U 11 T-1 Pipeline liquids tank used to store natural gas condensate, 6000 gallons

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	T-1	Natural gas liquids storage tank	Normal - Steady State	E11		PT11								

U 12 AUX-02 Emergency Generator

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	Aux Unit 2	18.35 MMB Btu/hr Natural Gas fired RICE with 1800 hp output with Low Emission Combustion (LEC) for emergency electrical generation	Standby	E12		PT12		0.0	100.0		13,000.0	13,600.0	1,100.0	1,100.0

TRANSCO - COMPRESSOR STATION 505 (35742)
BOP210001

Date: 7/1/2022

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

U 13 Tank-01 Natural Gas Liquids Condensate Tank

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	T-1	Natural Gas Condensate Liquids Tank	Normal - Steady State	E13		PT13		0.0	8,760.0		0.0	0.0	32.0	100.0

U 100 Turbines Natural Gas Fired Combustion Turbines #1 and #2

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Turb. #1	Natural Gas Fired Combustion Turbine #1	Normal - Steady State	E1001	CD1001 (P) CD1002 (S)	PT1001		0.0	8,760.0		190,000.0	200,000.0	858.0	950.0
OS2	Turb. #2	Natural Gas Fired Combustion Turbine #2	Normal - Steady State	E1002	CD1003 (P) CD1004 (S)	PT1002		0.0	8,760.0		190,000.0	200,000.0	858.0	950.0
OS3	<0F Turb. #1	Natural Gas Fired Combustion Turbine #1 Sub-Zero Operation	Normal - Steady State	E1001	CD1001 (P) CD1002 (S)	PT1001		0.0	40.0		190,000.0	200,000.0	858.0	950.0
OS4	<0F Turb. #2	Natural Gas Fired Combustion Turbine #2 Sub-Zero Operation	Normal - Steady State	E1002	CD1003 (P) CD1004 (S)	PT1002		0.0	40.0		190,000.0	200,000.0	858.0	950.0
OS5	Turb. #1 SU	Startup for Turbine #1	Startup	E1001		PT1001		0.0	37.5		190,000.0	200,000.0	858.0	950.0
OS6	Turb. #2 SU	Startup for Turbine #2	Startup	E1002		PT1002		0.0	37.5		190,000.0	200,000.0	858.0	950.0
OS7	Turb. #1 SD	Shutdown for Turbine #1	Shutdown	E1001	CD1001 (P)	PT1001		0.0	37.5		190,000.0	200,000.0	858.0	950.0
OS8	Turb. #2 SD	Shutdown for Turbine #2	Shutdown	E1002	CD1003 (P)	PT1002		0.0	37.5		190,000.0	200,000.0	858.0	950.0

TRANSCO - COMPRESSOR STATION 505 (35742)
BOP210001

Date: 7/1/2022

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

U 100 Turbines Natural Gas Fired Combustion Turbines #1 and #2

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS9	Turb #1 Com	Turbine #1 Commissioning	Normal - Steady State	E1001		PT1001		0.0	50.0		190,000.0	200,000.0	858.0	950.0
OS10	Turb #2 Com	Turbine #2 Commissioning	Normal - Steady State	E1002		PT1002		0.0	50.0		190,000.0	200,000.0	858.0	950.0

Date: 7/1/2022

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

Group NJID: GR1 U1 + U100

Members:

Type	ID	OS	Step
U	U 1	OS0 Summary	
U	U 100	OS0 Summary	

Formal Reason(s) for Group/Cap:

☒ Other

Other (explain): Establish annual emission limits for U1 and U100 combined

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

Operating Circumstances: