



State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SHAWN M. LATOURETTE
Commissioner

Air Pollution Control Operating Permit Significant Modification

Permit Activity Number: BOP220001

Program Interest Number: 02626

Mailing Address	Plant Location
GLEN JASEK VP GM EASTERN INTERSTATES TRANSCONTINENTAL GAS PIPE LINE CO 2800 POST OAK BLVD - LEVEL 1 HOUSTON, TX 77251	LNG PLANT STATION 240 718 Paterson Plank Rd Carlstadt Bergen County

Initial Operating Permit Approval Date: February 28, 2001

Operating Permit Approval Date: Draft Permit

Operating Permit Expiration Date: February 27, 2026

AUTHORITY AND APPLICABILITY

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

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

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

PERMIT SHIELD

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

The permittee shall submit to the Department and to United States Environmental Protection Agency (US EPA) periodic compliance certifications, in accordance with N.J.A.C. 7:27-22.19. **The annual compliance certification** is due to the

Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. **Semi-annual deviation reports** relating to compliance testing and monitoring are due to the Department within 30 days after the end of the semi-annual period. The schedule and additional details for these submittals are available in Subject Item - FC, of the Facility Specific Requirements of this permit.

ACCESSING PERMITS

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

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

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

ADMINISTRATIVE HEARING REQUEST

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

If you have any questions regarding this permit approval, please email Hanin Nashif at hanin.nashif@dep.nj.gov.

Approved by:

Enclosure

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

Facility Name: LNG PLANT STATION 240
Program Interest Number: 02626
Permit Activity Number: BOP220001

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Section A

Facility Name: LNG PLANT STATION 240
Program Interest Number: 02626
Permit Activity Number: BOP220001

POLLUTANT EMISSIONS SUMMARY

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

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs* (total)	CO ₂ e ²
Emission Units Summary	4.24	28.9	33.0	1.15	3.54	4.10	4.10	NA	1.03	
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	4.24	28.9	33.0	1.15	3.54	4.10	4.10	NA	1.03	57,000

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

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs (total)
Insignificant Source Operations	0.65	1.4	0.55	0.061	0.45	0.18	NA	NA	0.01
Non-Source Fugitive Emissions	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 Total CO₂e emissions for the facility.

Section A

Facility Name: LNG PLANT STATION 240

Program Interest Number: 02626

Permit Activity Number: BOP220001

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
7,12-	0.00000105
Acetaldehyde	0.0136
Acrolein	0.00218
Arsenic	0.0000131
Benzene	0.00409
Cadmium	0.000107
Cobalt	0.00000552
Ethylbenzene	0.0109
Formaldehyde	0.988
Propylene Oxide	0.00988

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

Other Air Contaminant	TPY
NA	NA

³ Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

Section B

Facility Name: LNG PLANT STATION 240

Program Interest Number: 02626

Permit Activity Number: BOP220001

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 <https://dep.nj.gov/boss/applications-and-forms/> (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal

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

21. For all source emissions testing performed at the facility, the phrase “worst case conditions without creating an unsafe condition” used in the enclosed compliance plan is consistent with EPA’s National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:
 - i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and
 - ii. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.
22. Consistent with EPA’s National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.
23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
24. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department’s Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]

Section C

Facility Name: LNG PLANT STATION 240

Program Interest Number: 02626

Permit Activity Number: BOP220001

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>
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B	---	10b	---
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Section D

Facility Name: LNG PLANT STATION 240

Program Interest Number: 02626

Permit Activity Number: BOP220001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

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Non-Source Fugitive Emissions (FG):

FG NJID	FG Description	
FG2	Maintenance / Operation Fugitives, Blowdown emissions	7

Insignificant Sources (IS):

IS NJID	IS Description	
IS15	Space Heaters - Natural Gas Fired (< 1 MMBTU/HR maximum rated heat input)	8
IS18	Emergency Generator Plant Backup, Natural Gas Fired, 60 KW (< 1 MMBtu/hr max. heat input), manufactured after January 1, 2009, NSPS Subpart JJJJ	9
IS19	Emergency Generator, Natural Gas Fired, 44 HP, 33 KW (< 1 MMBtu/hr max. heat input) manufactured after January 1, 2009, NSPS Subpart JJJJ	12
IS21	647 Gallon Underground Accumulator Tank/Mercaptan Flare (< 2,000 gallons)	14

Emission Units (U):

U NJID	U Designation	U Description	
U3	FLR	Emergency Flare	15
U7	WH1	Waterbath Heaters	18
U11	H2	Glycol Heater, 2.5 MMBtu/hr, Natural Gas	30
U12	H1	Regeneration Gas Heater, Natural Gas	32
U14	CT	Condensate Tank	35
U15	Turbine	Solar Taurus 60 Gas Turbine Compressor	36
U101	EFP	Emergency Fire Pump, 177 kW, 2013 Model Year, Displacement < 10 liters/cylinder, subject to NSPS Subpart IIII	55

LNG PLANT STATION 240 (02626)
BOP220001

Date: 10/27/202

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 190003

Description Significant Modification application to replace the existing Waterbath Heaters with four (4)
of Modifications: new 84 MMBtu/hr natural-gas fired heaters at the LNG Station 240 facility in Carlstadt,
New Jersey.

*Added 4 waterbath heaters to U7.

*old waterbath heaters will remain in permit until the new heaters are added onsite and an application is submitted to remove the old waterbath heaters.

*all waterbath heaters will comply with natural gas usage.

BOP220001

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

Subject Item: FC

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

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

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

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

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**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]

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Facility Specific Requirements**

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

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**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.

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

Subject Item: FG2 Maintenance / Operation Fugitives, Blowdown emissions

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall implement the control technologies or procedures that the Control Measure Plan indicates would be appropriate for each blowdown event. A “blowdown event” means the non-emergency release of natural gas from a pipeline for the purposes 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(b)]	None.	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 for each blowdown event: 1. the location, 2. date and duration of each blowdown event, 3. a description of the emissions reduction procedures and technology used, and 4. a quantification of the amount of VOC emission reductions achieved for each event. The permittee shall also maintain a copy of the Control Measure Plan. [N.J.A.C. 7:27-16.21(c)]	Submit a report: Annually on or before March 1. The permittee shall submit a report to the Northern Regional Enforcement Office, of each blowdown event that occurred during the preceding year. The blowdown event report must include the location, date and duration of each 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)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: IS15 Space Heaters - Natural Gas Fired (< 1 MMBTU/HR maximum rated heat input)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 3.2]	None.	None.	None.

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

Subject Item: IS18 Emergency Generator Plant Backup, Natural Gas Fired, 60 KW (< 1 MMBtu/hr max. heat input), manufactured after January 1, 2009, NSPS Subpart JJJJ

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart JJJJ [None]	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	<p>The emergency generator shall produce electrical power exclusively for use at the facility. The 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. During 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, 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] 	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain on site and record in a logbook or computer data system, the following information:</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 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. [N.J.A.C. 7:27-19.11] 	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<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. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.
5	<p>HC+NO_x ≤ 10 g/HP-hr, CO ≤ 387 g/HP-hr. [40 CFR 60.4233(d)]</p>	None.	Other: The permittee must keep documentation demonstrating compliance with the applicable emission standards.[40 CFR 60.4245(a)(4)].	None.
6	<p>The permittee must operate and maintain the emergency generator to achieve the emission standards over the entire life of the emergency generator. [40 CFR 60.4234]</p>	None.	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards. [40 CFR 60.4245(a)(4)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Emergency stationary spark ignition internal combustion engine (SI ICE) may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. There is no time limit on the use of emergency stationary ICE in emergency situations. [40 CFR 60.4243(d)(2)(i)]	Monitored by hour/time monitor continuously. The permittee shall a non-resettable hour meter. [40 CFR 60.4237(c)]	Other: The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 60.4245(b)].	None.
8	The permittee shall maintain the following documentation: All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; maintenance conducted on the engine; for a certified engine, keep documentation from the manufacturer that the engine is certified; if engine is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards. [40 CFR 60.4245(a)]	None.	None.	None.
9	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.
10	The emergency generator meets the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 Subpart JJJJ. No further requirements apply under 40 CFR 63. [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS JJJJ. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS JJJJ. [40 CFR 63].	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: IS19 Emergency Generator, Natural Gas Fired, 44 HP, 33 KW (< 1 MMBtu/hr max. heat input) manufactured after January 1, 2009, NSPS Subpart JJJJ

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart JJJJ [None]	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	HC+NOx <= 10 g/HP-hr, CO <= 387 g/HP-hr. [40 CFR 60.4233(d)]	None.	Other: The permittee must keep documentation demonstrating compliance with the applicable emission standards.[40 CFR 60.4245(a)(4)].	None.
4	The permittee must operate and maintain the emergency generator to achieve the emission standards over the entire life of the emergency generator. [40 CFR 60.4234]	None.	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards. [40 CFR 60.4245(a)(4)].	None.
5	Emergency stationary spark ignition internal combustion engine (SI ICE) may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. There is no time limit on the use of emergency stationary ICE in emergency situations. [40 CFR 60.4243(d)(2)(i)]	Monitored by hour/time monitor continuously. The permittee shall a non-resettable hour meter. [40 CFR 60.4237(c)]	Other: The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 60.4245(b)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The permittee shall maintain the following documentation: All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; maintenance conducted on the engine; for a certified engine, keep documentation from the manufacturer that the engine is certified; if engine is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards. [40 CFR 60.4245(a)]	None.	None.	None.
7	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.
8	The emergency generator meets the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 Subpart JJJJ. No further requirements apply under 40 CFR 63. [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS JJJJ. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS JJJJ. [40 CFR 63].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: IS21 647 Gallon Underground Accumulator Tank/Mercaptan Flare (< 2,000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity greater than 20%, exclusive of water vapor, shall not exceed a period of 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 6.2]	None.	None.	None.

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

Emission Unit: U3 Emergency Flare

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 0.48 tons/yr based on 8,760 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	CO <= 2.17 tons/yr based on 8,760 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Cadmium compounds <= 0.00000755 tons/yr based on 8760 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Natural Gas Usage <= 13.72 MMft ³ /yr based on 8,760 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 6.2]	None.	None.	None.
6	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	The owner or operator of a flare shall inspect the flare before May 1 of each year to verify that the flare continues to be operated in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. At the conclusion of the inspection, the owner or operator of the flare shall record the following in a log book at the conclusion of each inspection: 1. The name of the person conducting the inspection; 2. The date the inspection was conducted; 3. Any changes or adjustments made to the flare as a result of the inspection; and 4. A statement that the flare is currently being operated in compliance with the manufacturer's specifications. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Flare shall be operated with a pilot flame at all times. [N.J.A.C. 7:27-22.16(a)]	Other: A thermocouple shall continuously monitor the presense of a pilot flame .[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain records of the dates and times the flare pilot flame is out. [N.J.A.C. 7:27-22.16(o)]	None.
9	There shall be an automatic system (or equivalent) on the flare to relight the flare pilots to maintain flare combustion. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	The flare shall have a smokeless design. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain records of manufacturer specifications showing design specifications.[N.J.A.C. 7:27-22.16(o)].	None.

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

Emission Unit: U3 Emergency Flare**Operating Scenario:** OS2 Emergency Flare - Continuous Pilots and Sweep Flows

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 0.5 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 0.11 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Cadmium compounds <= 0.00000172 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.5 lb/hr based on 0.02 grains per scf. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
5	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum Gross Heat Input <= 1.6 MMBTU/hr (HHV) based on the sweep and pilot gas during normal operation (1,566 scfh), and the heating value (HHV) of 1,100 Btu/scf. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Emission Unit: U7 Waterbath Heaters

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart Dc [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test no later than every five years from the last stack test using an approved protocol to demonstrate compliance with emission limits for NO_x and CO as specified in the compliance plan for U7 OS1, OS2, OS3, and OS4.</p> <p>Testing every 5 years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.</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 12 months prior to the completion of the five year period since the last stack test. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for NO_x and CO as specified in the compliance plan for OS5, OS6, OS7, and OS8.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>[N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: 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>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved initial (or modified) operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and [N.J.A.C. 7:27-22.18(h)]</p>
4	NO _x (Total) <= 6.7 tons/yr. [N.J.A.C. 7:27-19.13]	None.	None.	None.
5	CO <= 5.48 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 0.34 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Formaldehyde <= 0.00493 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Arsenic Emissions <= 0.0000131 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Cadmium compounds <= 0.0000723 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Cobalt compounds <= 0.00000552 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Dimethylbenz(a)anthracene (7,12-) <= 0.00000105 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	HAPs (Total) <= 0.00502 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	SO2 <= 0.132 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 0.125 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 0.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-2.5 (Total) <= 0.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Hours of Operation <= 1,600 hr/yr for OS1, OS2, OS3, and OS4 combined. The waterbath heaters shall not be operated during the ozone season as defined in N.J.A.C. 7:27-21.1. [N.J.A.C. 7:27-19.13]	None.	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 the following records: 1. hours of operation for each heater during each calendar month; 2. total hours of operation during each calendar month; and 3. total hours of operation during each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.
18	Natural Gas Usage <= 131.45 MMft ³ /yr. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by gas use 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 the following records: 1. natural gas usage for each heater during each calendar month; 2. total gas usage during each calendar month; 3. total gas usage during each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	The permittee shall only operate four waterbath heaters at any given time. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The permittee shall maintain the following records: 1. Maintenance records of dates of operation; 2. Dates of the removal of the old waterbath heaters and the installation of the new waterbath heaters. [N.J.A.C. 7:27-22.16(o)]	None.
20	No visible emissions except for a period of not longer than three (3) minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2 (a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
21	The flue gas recirculation (FGR) control system shall be operating at all times the heaters are operating. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	The permittee shall adjust the combustion process of each heater in the same quarter of each calendar year. The permittee shall: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications. [N.J.A.C. 7:27-19.7(g)] and [N.J.A.C. 7:27-19.16(a)]	Monitored by periodic emission monitoring annually. The permittee shall : 1. Measure the concentrations in the effluent stream of NOx and CO in ppmvd, before and after the adjustment in accordance with NJDEP Technical Manual 1005; and 2. Convert the emission values of NOx and CO concentrations measured in lb/MMBTU according to the following formula: $\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor}/387,000,000$ where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; and O2 correction factor: $(20.9\%)/(20.9\% - \text{O2 measured})$, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment. The permittee shall maintain the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); and 7. The type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-19.16(b)]	Submit a report: within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: www.nj.gov/dep/aqpp/adjustment.htm . Instructions for submitting this report online are specified at: http://www.nj.gov/dep/aqpp/adjustment.htm . The report shall contain the following information: 1. The concentrations of NOx and CO in the effluent stream in ppmvd, and O2 in percent dry basis, measured before and after the adjustment of the combustion process; 2. The converted emission values in lb/MMBTU for the measurements taken before and after the adjustment of the combustion process; 3. A description of any corrective actions taken as a part of the combustion adjustment; and 4. The type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-19.16(c)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The permittee shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.7(g)]	None.	None.	None.
24	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
25	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]

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

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

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

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

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
31	The owner or operator shall notify the Administrator of the proposed replacement of components, upon triggering reconstruction as defined at 40 CFR 60.15. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
32	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
33	The permittee shall record and maintain records of the amount of natural gas combusted during each calendar month. (NSPS Subpart Dc) [40 CFR 60.48c(g)(2)]	None.	Other: The owner or operator shall maintain all required records for a period of two years following the date of such record.[40 CFR 60.48c(i)].	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U7 Waterbath Heaters

Operating Scenario: OS1 Waterbath Heater #1, OS2 Waterbath Heater #2, OS3 Waterbath Heater #3, OS4 Waterbath Heater #4

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 8.38 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on each of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	NOx (Total) <= 0.1 lb/MMBTU. The Alternative Emission Limit will expire on July 9, 2024. [N.J.A.C. 7:27-19.13]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [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. [N.J.A.C. 7:27-22.16(o)]
3	CO <= 6.87 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	CO <= 100 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)2]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	VOC (Total) <= 0.35 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	VOC (Total) <= 50 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)1]	None.	None.	None.
7	Formaldehyde <= 0.00616 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Arsenic compounds <= 0.0000164 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Cadmium compounds <= 0.0000904 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Cobalt compounds <= 0.0000069 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Dimethylbenz(a)anthracene (7,12-) <= 0.00000131 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 0.164 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	TSP <= 14.2 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
14	TSP <= 0.16 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 0.62 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-2.5 (Total) <= 0.62 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Maximum Gross Heat Input <= 83.8 MMBTU/hr. [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.

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

Emission Unit: U7 Waterbath Heaters**Operating Scenario:** OS5 Waterbath Heater #1, OS6 Waterbath Heater #2, OS7 Waterbath Heater #3, OS8 Waterbath Heater #4

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 0.84 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	NOx (Total) <= 0.05 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
3	CO <= 3.28 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	CO <= 100 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)2]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	VOC (Total) <= 0.42 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 50 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)1]	None.	None.	None.
7	Formaldehyde <= 0.00616 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Arsenic compounds <= 0.0000164 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Cadmium compounds <= 0.0000904 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Cobalt compounds <= 0.0000069 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Dimethylbenz(a)anthracene (7,12-) <= 0.00000131 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 14.2 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
14	TSP <= 0.16 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 0.626 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-2.5 (Total) <= 0.626 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Maximum Gross Heat Input <= 84 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.

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

Emission Unit: U11 Glycol Heater, 2.5 MMBtu/hr, Natural Gas

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 1.05 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	CO <= 0.88 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Natural Gas Usage <= 21 MMft ³ /yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U11 Glycol Heater, 2.5 MMBtu/hr, Natural Gas

Operating Scenario: OS1 Glycol Heater

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 3.2]	None.	None.	None.
2	TSP <= 1.46 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP < 0.05 lb/hr (below reporting threshold). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.24 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum Gross Heat Input <= 2.44 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate .[N.J.A.C. 7:27-22.16(o)].	None.
7	Heater fuel is limited to Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U12 Regeneration Gas Heater, Natural Gas

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NO _x (Total) <= 3.07 tons/yr based on the maximum fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	CO <= 2.04 tons/yr based on the maximum fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 0.77 tons/yr based on the maximum fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Formaldehyde <= 0.00184 tons/yr based on the maximum fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Cadmium compounds <= 0.000027 tons/yr based on the maximum fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total) <= 0.00186 tons/yr based on the maximum fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.19 tons/yr based on the maximum fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.19 tons/yr based on the maximum fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Natural Gas Usage <= 49 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 natural gas usage during each calendar month and each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.

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

Emission Unit: U12 Regeneration Gas Heater, Natural Gas

Operating Scenario: OS1 Regeneration Gas Heater

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions, exclusive of visible condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	NOx (Total) <= 1.2 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.8 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 0.3 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Formaldehyde <= 0.00042 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Cadmium compounds <= 0.00000615 lb/hr based on AP-42 factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 5.9 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
8	TSP < 0.05 lb/hr (below reporting threshold). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.073 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-2.5 (Total) <= 0.073 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<p>The permittee shall adjust the combustion process in the same quarter of each calendar year. The permittee shall:</p> <ol style="list-style-type: none"> 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; and 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications. [N.J.A.C. 7:27-19.7(g)] 	<p>Monitored by periodic emission monitoring annually. The permittee shall:</p> <ol style="list-style-type: none"> 1. Measure the concentrations in the effluent stream of NOx, CO, and O2, before and after the adjustment in accordance with NJDEP Technical Manual 1005; and 2. Convert the emission values of NOx and CO measured in ppmvd to lb/MMBTU according to the following formula: $\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000$ where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: natural gas = 8,710 dscf/MMBTU, residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: $(20.9\%) / (20.9\% - \text{O2 measured})$, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)] 	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment. The permittee shall maintain the following records for each adjustment:</p> <ol style="list-style-type: none"> 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); and 7. The type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-19.16(b)] 	<p>Submit a report: within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: www.njdeponline.com. Instructions for submitting this report online are specified at: http://www.nj.gov/dep/aqpp/adjustment.htm.</p> <p>The report shall contain the following information:</p> <ol style="list-style-type: none"> 1. The concentrations of NOx and CO in the effluent stream in ppmvd, and O2 in percent dry basis, measured before and after the adjustment of the combustion process; 2. The converted emission values in lb/MMBTU for the measurements taken before and after the adjustment of the combustion process; 3. A description of any corrective actions taken as a part of the combustion adjustment; and 4. The type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-19.16(c)]
12	<p>The permittee shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]</p>	None.	<p>Other: The permittee shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].</p>	None.
13	<p>Maximum Gross Heat Input ≤ 9.83 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]</p>	None.	<p>Other: Keep records showing maximum heat input rate. [N.J.A.C. 7:27-22.16(o)].</p>	None.
14	<p>Heater fuel is limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]</p>	None.	None.	None.

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

Emission Unit: U14 Condensate Tank

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.5 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Maximum annual throughput <= 44 Mgal/yr. [N.J.A.C. 7:27-22.16(e)]	Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Other: Manual logging of parameter or storing data in a computer data system quarterly.[N.J.A.C. 7:27-22.16(o)].	None.
3	The permittee shall paint and maintain the external surface of the tank white. [N.J.A.C. 7:27-16.2(b)]	None.	None.	None.
4	The tank shall be equipped with a conservation vent.[N.J.A.C. 7:27-16.2(b)]	None.	None.	None.
5	All tank's gauging and/or sampling systems shall be vapor tight except when gauging or sampling is taking place. [N.J.A.C. 7:27-16.2(d)]	None.	None.	None.
6	Tank content limited to natural gas condensate. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material The permittee shall maintain records specifying each VOC stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(s)]	None.
7	The tank shall be equipped with a submerged fill pipe. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.

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

Emission Unit: U15 Solar Taurus 60 Gas Turbine Compressor

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 [None]	None.	None.	None.
2	<p>PERIODIC STACK TESTING SUMMARY</p> <p>The permittee shall conduct a periodic stack test using a protocol approved by the Department to demonstrate compliance with emission limits for NO_x and CO as specified in the compliance plan for U15 OS1. The permittee shall provide EMS with the turbine load performance curve with the protocol. 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: http://www.epa.gov/ttnchie1/ert, 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. 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>
3	NO _x (Total) <= 17.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	CO <= 22.4 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 2.63 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Formaldehyde <= 0.981 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Benzene <= 0.00409 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Acrolein <= 0.00218 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Acetaldehyde <= 0.00136 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Propylene oxide <= 0.00988 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Ethylbenzene <= 0.0109 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	HAPs (Total) <= 1.02 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	SO2 <= 1.02 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 3.41 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 3.41 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-2.5 (Total) <= 3.41 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Natural Gas Usage <= 619.31 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 natural gas usage during each calendar month and during each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.
18	Fuel type limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	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.
20	Maximum Gross Heat Input <= 77.77 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
21	The permittee shall adjust the combustion process in accordance with the manufacturer's recommended procedures and maintenance schedules. [N.J.A.C. 7:27-19.16(g)]	Monitored by periodic emission monitoring upon performing combustion adjustment. The permittee shall measure concentrations of NOx, CO, and O2 in the effluent stream before and after each combustion adjustment in accordance with NJDEP Technical Manual 1005. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment. The permittee shall maintain records of the following information for each adjustment: 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; and 5. The type and amount of fuel use over the 12 months prior to the adjustment. [N.J.A.C. 7:27-19.16(h)]	None.
22	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
24	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. (NSPS Subpart A) [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]
25	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the actual date of initial startup of an affected facility postmarked within 15 days after such date. (NSPS Subpart A) [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]
27	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	None.

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

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

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of the performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(c)]	None.	None.	None.
32	The owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60.8(e). (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.
33	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.
34	Compliance with NSPS standards specified in this permit, other than opacity standards, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in NSPS. (NSPS Subpart A) [40 CFR 60.11(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
36	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
37	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	SO ₂ ≤ 0.06 lb/MMBTU. [40 CFR 60.4330(a)(2)]	Other: The required demonstration that the total sulfur content of the fuel does not exceed potential sulfur emissions of 0.060 lb SO ₂ /MMBtu shall be made using a 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)].	Other: The permittee shall keep copies of valid purchase contracts, tariff sheets or transportation contracts 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 demonstrating that the potential sulfur emissions from the combustion of natural gas do not exceed 0.060 lb SO ₂ per MMBtu heat input. [40 CFR 60.8(a)]
39	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. (NSPS Subpart KKKK) [40 CFR 60.4333(a)]	None.	None.	None.

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

Emission Unit: U15 Solar Taurus 60 Gas Turbine Compressor

Operating Scenario: OS1 Natural Gas- Fired Combustion Turbine

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 3.96 lb/hr based on manufacturer data. [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 U15 OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	NOx (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
3	NOx (Total) <= 25 ppmvd @ 15% O ₂ . [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 Test Requirements in U15 OS Summary. [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	NOx (Total) <= 25 ppmvd @ 15% O ₂ . [40 CFR 60.4320(a)]	<p>NOx (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. The owner or operator shall conduct an initial performance test as required in 40 CFR 60.8. Test methods and procedures shall be consistent with the requirements of 40 CFR 60.4400. The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Alternatively, the testing might be performed at the highest achievable load point, if at least 75 percent of peak load cannot be achieved in practice.</p> <p>If the NOx test result is less than or equal to 75% of the NOx emission limit 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 the NOx limit, an annual performance testing must be resumed. [40 CFR 60.4340(a)]</p>	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [40 CFR 60.4400]	Submit a report: Annually. The owner or operator shall submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test. [40 CFR 60.4375(b)]
5	CO <= 4.02 lb/hr based on manufacturer data. [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 U15 OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	CO <= 50 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 Test Requirements in U15 OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
9	VOC (Total) <= 0.46 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Formaldehyde <= 0.224 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Benzene <= 0.000934 lb/hr based on AP-42 factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Acrolein <= 0.000498 lb/hr based on AP-42 factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acetaldehyde <= 0.00311 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Propylene oxide <= 0.00226 lb/hr based on AP-42 factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Ethylbenzene <= 0.00249 lb/hr based on AP-42 factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	SO ₂ <= 0.23 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	TSP <= 13.8 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
18	TSP <= 0.78 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	PM-10 (Total) <= 0.78 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	PM-2.5 (Total) <= 0.78 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U15 Solar Taurus 60 Gas Turbine Compressor

Operating Scenario: OS2 Startup for Natural Gas-Fired Combustion Turbine

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NO _x (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
2	NO _x (Total) <= 0.4 lb per start-up event, based on manufacturer data and equipment capacity, from BOP180002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
4	CO <= 22 lb per start-up event, based on manufacturer data and equipment capacity, from BOP180002. [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 start-up event, including Formaldehyde, based on manufacturer data and equipment capacity, from BOP180002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Formaldehyde <= 0.112 lb per start-up event based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Benzene <= 0.000467 lb per start-up event based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Acrolein <= 0.000249 lb/hr per start-up event based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Acetaldehyde <= 0.00156 lb per start-up event based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Propylene oxide <= 0.00113 lb per start-up event based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Ethylbenzene <= 0.00249 lb/hr based on AP-42 factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	SO2 <= 0.125 lb per start-up event based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 0.39 lb/hr per start-up event based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 0.39 lb per start-up event based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-2.5 (Total) <= 0.39 lb per start-up event based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Maximum number of Start-up events is limited to 150 per calendar 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 upon occurrence of event. The permittee shall record date of each start-up. [N.J.A.C. 7:27-22.16(o)]	None.
18	Start-up Period <= 30 minutes. Startup is defined as the period of time from initial firing of natural gas in the turbine until the turbine reaches a steady state of at least 50% of its design capacity. [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 record the duration of each start-up event. [N.J.A.C. 7:27-22.16(o)]	None.

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

Emission Unit: U15 Solar Taurus 60 Gas Turbine Compressor

Operating Scenario: OS3 Shutdown for Natural Gas-Fired Combustion Turbine

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 1 lb per shutdown event based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 42 ppmvd @ 15% O2. [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
3	CO <= 40 lb per shutdown event based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
5	VOC (Total) <= 5 lb per shutdown event based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
7	Formaldehyde <= 0.112 lb per shutdown event based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Benzene <= 0.000467 lb per shutdown event based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Acrolein <= 0.000249 lb/hr per shutdown event based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Acetaldehyde <= 0.00156 lb per shutdown event based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Propylene oxide <= 0.00113 lb per shutdown event based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Ethylbenzene <= 0.00249 lb/hr based on AP-42 factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	SO2 <= 0.115 lb per shutdown event based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 0.39 lb per shutdown event based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 0.39 lb per shutdown event based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-2.5 (Total) <= 0.39 lb per shutdown event based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Maximum number of Shutdown events is limited to 150 per calendar 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 upon occurrence of event. The permittee shall record dates of each shutdown event. [N.J.A.C. 7:27-22.16(o)]	None.
18	Shutdown Period <= 30 minutes. Shutdown is defined as the point from which the combustion turbine output falls below 50% of its design capacity with the intent to discontinue natural gas compression until fuel flow and combustion has ceased. [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 record the duration of each shutdown event. [N.J.A.C. 7:27-22.16(o)]	None.

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

Emission Unit: U15 Solar Taurus 60 Gas Turbine Compressor

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 11.7 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 42 ppmvd @ 15% O2. [N.J.A.C. 7:27-19.5(l)]	None.	None.	None.
3	CO <= 16.9 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
5	VOC (Total) <= 0.97 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
7	Formaldehyde <= 0.224 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Benzene <= 0.000934 lb/hr based on AP-42 factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Acrolein <= 0.000498 lb/hr based on AP-42 factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Acetaldehyde <= 0.00311 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Propylene oxide <= 0.00226 lb/hr based on AP-42 factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Ethylbenzene <= 0.00249 lb/hr based on AP-42 factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	SO2 <= 0.23 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 13.8 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
15	TSP <= 0.78 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-10 (Total) <= 0.78 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

U15 Solar Taurus 60 Gas Turbine Compressor

OS4

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	PM-2.5 (Total) <= 0.78 lb/hr based on manufacturer data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Hours of Operation <= 40 hr/yr. [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; 2. ambient temperature; and 3. hours of operation. [N.J.A.C. 7:27-22.16(o)]	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U101 Emergency Fire Pump, 177 kW, 2013 Model Year, Displacement < 10 liters/cylinder, subject to NSPS Subpart IIII

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart IIII [None]	None.	None.	None.
2	VOC (Total) <= 0.0026 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.071 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.024 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.0026 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.0026 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.0026 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Hours of Operation <= 100 hr/yr for testing and maintenance. [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. [N.J.A.C. 7:27-19.11(a)]	None.
9	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.
10	Fire pump fuel limited to diesel fuel with Sulfur Content in Fuel <= 15 ppmw. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The fire pump shall be operated only: `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, and 2. To provide power to pump water for fire suppression or protection, or in case of flood, even if there is no power outage and primary source of mechanical energy has not failed. [N.J.A.C. 7:27-19.1]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain on site and record the following information for each time the fire pump is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
12	The fire pump shall not be used: 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 [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.
13	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866 [40 CFR 60.4(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the Northern Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	None.
15	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere [40 CFR 60.12]	None.	None.	None.
16	The owner or operator shall notify the administrator of the proposed replacement of components. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacement is commenced. [40 CFR 60.15]	None.	None.	None.
17	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19 [40 CFR 60.19]	None.	None.	None.
18	NMHC + NO _x ≤ 4 g/kW-hr, CO ≤ 3.5 g/kW-hr, and PM ≤ 0.2 g/kW-hr. [40 CFR 60.4205(c)]	None.	Other: The permittee must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power.[40 CFR 60.4211].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	None.	None.
20	The permittee must use diesel fuel that contains 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	None.
21	The permittee must operate and maintain the stationary CI internal combustion engine, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. The permittee may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable. [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.
22	The owner or operator of a fire pump engine that was manufactured starting with or after the model year that applies to the engine power rating and a rated speed in table 3 to NSPS IIII and must comply with the emission standards in 40 CFR 60.4205(c), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(c), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.

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Facility Specific Requirements**

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

BOP220001

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

Emission Unit: U101 Emergency Fire Pump, 177 kW, 2013 Model Year, Displacement < 10 liters/cylinder, subject to NSPS Subpart IIII

Operating Scenario: OS1 EMERG FIRE PUMP

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 1.41 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.47 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 1.08 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Maximum Gross Heat Input <= 1.68 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

LNG PLANT STATION 240 (02626)
BOP220001

Date: 10/27/2021

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): LNG PLANT STATION 240

Facility ID (AIMS): 02626

Street 718 PATERSON PLANK RD
Address: BERGEN COUNTY
CARLSTADT, NJ 07072-2397

Mailing 718 PATERSON PLANK RD
Address: CARLSTADT, NJ 07072-2397

County: Bergen
Location Located in the Meadowlands at the end of
Description: Transco's interstate natural gas pipeline
system, which transports natural gas into the
Metropolitan New York Area.

State Plane Coordinates:	
X-Coordinate:	616,747
Y-Coordinate:	722,066
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: Williams Transco

Org. Type: Corporation

Name: Michael Hahn

NJ EIN: 89220500000

Title: Environmental Specialist V

Phone: (609) 285-2407 x

Mailing Address: 99 Farber Road

Fax: () - x

Suite 900

Other: (267) 207-1778 x

Princeton, NJ 08540

Type: Mobile

Email: Michael.Hahn@williams.com

Contact Type: Emission Statements

Organization: Williams Transco

Org. Type: Corporation

Name: Michael Hahn

NJ EIN: 89220500000

Title: Environmental Specialist V

Phone: (609) 285-2407 x

Mailing Address: 99 Farber Road

Fax: () - x

Suite 900

Other: (267) 207-1778 x

Princeton, NJ 08540

Type: Mobile

Email: Michael.Hahn@williams.com

Contact Type: Fees/Billing Contact

Organization: Williams Transco

Org. Type: Corporation

Name: Michael Hahn

NJ EIN: 89220500000

Title: Environmental Specialist V

Phone: (609) 285-2407 x

Mailing Address: 99 Farber Road

Fax: () - x

Suite 900

Other: (267) 207-1778 x

Princeton, NJ 08540

Type: Mobile

Email: Michael.Hahn@williams.com

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

Contact Type: Operator

Organization: Transcontinental Gas Pipeline Company LLC **Org. Type:** LLC
Name: Transcontinental Gas Pipeline CompanyLLC **NJ EIN:** 89220500000
Title: LNG Station 240
Phone: (713) 215-2000 x **Mailing Address:** 2800 Post Oak Blvd.
Fax: (713) 215-3905 x Suite 900
Other: () - x Houston, TX 77056
Type:
Email:

Contact Type: Owner (Current Primary)

Organization: Transcontinental Gas Pipeline Company LLC **Org. Type:** LLC
Name: Transcontinental Gas Pipeline CompanyLLC **NJ EIN:** 89220500000
Title: LNG Station 240
Phone: (713) 215-2000 x **Mailing Address:** 2800 Post Oak Blvd.
Fax: (713) 215-3905 x Suite 900
Other: () - x Houston, TX 77056
Type:
Email:

Contact Type: Responsible Official

Organization: Transcontinental Gas Pipe Line Corporation **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 Houston, TX 77056-5147
Type:
Email: glen.jasek@williams.com

LNG PLANT STATION 240 (02626)
BOP220001

Date: 10/27/2023

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)
FG1	Component Leak Fugitives	Plant-wide	49.850							0.16000000	
FG2	Maintenance / Operation Fugitives, Blowdown emissions	Plant-wide	5.000							0.16000000	
Total			54.850	0.000	0.000	0.000	0.000	0.000	0.000	0.32000000	0.000

LNG PLANT STATION 240 (02626)
BOP220001

Date: 10/27/2023

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS6	Diesel Fuel Tanks (< 2,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	Storage Vessel	across from office									
IS15	Space Heaters - Natural Gas Fired (< 1 MMBTU/HR maximum rated heat input)	Fuel Combustion Equipment (Other)	plant-wide									
IS18	Emergency Generator Plant Backup, Natural Gas Fired, 60 KW (< 1 MMBtu/hr max. heat input), manufactured after January 1, 2009, NSPS Subpart JJJJ	Emergency Generator	front gate of facility									
IS19	Emergency Generator, Natural Gas Fired, 44 HP, 33 KW (< 1 MMBtu/hr max. heat input) manufactured after January 1, 2009, NSPS Subpart JJJJ	Emergency Generator	telecom hut									

LNG PLANT STATION 240 (02626)
BOP220001

Date: 10/27/2023

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS21	647 Gallon Underground Accumulator Tank/Mercaptan Flare (< 2,000 gallons)	Storage Vessel	along property line of the facility									
Total				0.645	1.381	0.546	0.061	0.448	0.448	0.000	0.01000000	0.000

BOP220001

**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
E7	WH1	Waterbath Heater #1	Process Heater	PCP 980002	1/1/1968	No	1/17/2002	
E8	WH2	Waterbath Heater #2	Process Heater	PCP 980002	1/1/1968	No	1/17/2002	
E9	WH3	Waterbath Heater #3	Process Heater	PCP 980002	1/1/1968	No	1/17/2002	
E10	WH4	Waterbath Heater #4	Process Heater	PCP 980002	1/1/1968	No	1/17/2002	
E11	H2	Glycol Heater	Process Heater	BOP160001	8/18/2016	No		
E12	H1	Regeneration Gas Heater	Process Heater	BOP080010	7/22/2008	No		
E14	CT	Condensate Tank	Storage Vessel	GEN000001	9/1/1997	No	9/1/1997	
E15	GT-3001	Natural Gas Fired Turbine	Combustion Turbine	BOP180002	5/15/2020	No		
E33	F-6001	Emergency Flare	Other Equipment	BOP180002	2/28/2019	No		
E101	EFP	Emergency Fire Pump	Stationary Reciprocating Engine	BOP130002	8/14/2013	No		
E102	WH1	Waterbath Heater #1	Process Heater			No		
E103	WH2	Waterbath Heater #2	Process Heater			No		
E104	WH3	Waterbath Heater #3	Process Heater			No		
E105	WH4	Waterbath Heater #4	Process Heater			No		

02626 LNG PLANT STATION 240 BOP220001 E7 (Process Heater)
Print Date: 10/27/2023

Make:
Manufacturer:
Model:
Equipment Type Description:

Maximum rated Gross Heat Input (MMBtu/hr-HHV):
Draft Type:
Firing Method:

Is the Process Heater using (check all that apply):

Low NOx Burner ☐

Type of Low NOx Burner:

Flue Gas Recirculation (FGR): ☒

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

☐ Yes
☒ No

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

☐ Yes
☒ No

Comments:

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

02626 LNG PLANT STATION 240 BOP220001 E8 (Process Heater)
Print Date: 10/27/2023

Make:
Manufacturer:
Model:
Equipment Type Description:

Maximum rated Gross Heat Input (MMBtu/hr-HHV):
Draft Type:
Firing Method:

Is the Process Heater using (check all that apply):

Low NOx Burner ☐

Type of Low NOx Burner:

Flue Gas Recirculation (FGR): ☒

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

☐ Yes
☒ No

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

☐ Yes
☒ No

Comments:

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

02626 LNG PLANT STATION 240 BOP220001 E9 (Process Heater)

Print Date: 10/27/2023

Make:	N/A
Manufacturer:	Johnston
Model:	TF-2000
Equipment Type Description:	Waterbath Heater #3

Maximum rated Gross Heat Input (MMBtu/hr-HHV):	83.8
Draft Type:	<input type="text"/>
Firing Method:	<input type="text"/>

Is the Process Heater using (check all that apply):

Low NOx Burner	<input type="checkbox"/>
Type of Low NOx Burner:	<input type="text"/>
Flue Gas Recirculation (FGR):	<input checked="" type="checkbox"/>

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:	FGR manufacturer Johnston Boiler Company, max. air flow rate to control device 28373 acfm, install date 1/17/2002 (FGR prev. listed as CD5 in CD Inventory)
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Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

02626 LNG PLANT STATION 240 BOP220001 E10 (Process Heater)
Print Date: 10/27/2023

Make:
Manufacturer:
Model:
Equipment Type Description:

Maximum rated Gross Heat Input (MMBtu/hr-HHV):
Draft Type:
Firing Method:

Is the Process Heater using (check all that apply):

Low NOx Burner ☐

Type of Low NOx Burner:

Flue Gas Recirculation (FGR): ☒

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

☐ Yes
☒ No

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

☐ Yes
☒ No

Comments:

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

02626 LNG PLANT STATION 240 BOP220001 E11 (Process Heater)
Print Date: 10/27/2023

Make:	N/A
Manufacturer:	Fulton
Model:	VMP-W-60-P
Equipment Type Description:	Glycol Heater

Maximum rated Gross Heat Input (MMBtu/hr-HHV):	2.44
Draft Type:	
Firing Method:	Indirect

Is the Process Heater using (check all that apply):

Low NOx Burner	<input type="checkbox"/>
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR):	<input type="checkbox"/>

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

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

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

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

Comments:	None
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Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

02626 LNG PLANT STATION 240 BOP220001 E12 (Process Heater)
Print Date: 10/27/2023

Make:	
Manufacturer:	Devco
Model:	HELIFLO
Equipment Type Description:	Regeneration Gas Heater

Maximum rated Gross Heat Input (MMBtu/hr-HHV):	9.83
Draft Type:	Forced
Firing Method:	Direct

Is the Process Heater using (check all that apply):

Low NOx Burner	<input type="checkbox"/>
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR):	<input type="checkbox"/>

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

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

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

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

Comments:

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

02626 LNG PLANT STATION 240 BOP220001 E14 (Storage Vessel)

Print Date: 10/27/2023

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:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

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):

17.41

Length (ft):

Width (ft):

Diameter (ft):

8.66

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

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?

02626 LNG PLANT STATION 240 BOP220001 E14 (Storage Vessel)
Print Date: 10/27/2023

Does the storage vessel
have a Conservation Vent?

Yes ▼

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

No ▼

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

No ▼

Comments:

02626 LNG PLANT STATION 240 BOP220001 E15 (Combustion Turbine)
Print Date: 10/27/2023

Make:	Compressor Turbine		
Manufacturer:	Solar		
Model:	Taurus 60		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	77.77		
Type of Turbine:	Industrial		
Type of Cycle:	Simple-Cycle	Description:	
Industrial Application:	Compressor	Description:	
Power Output:	8,412.00	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.		

02626 LNG PLANT STATION 240 BOP220001 E33 (Other Equipment)
Print Date: 10/27/2023

Make:

Manufacturer:

Model:

Equipment Type:

Callidus
Emergency Flare

Capacity:

68.90

Units:

lb/hr

Description:

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:

Assumes continuous sweep and pilot gas flows combined.

02626 LNG PLANT STATION 240 BOP220001 E101 (Stationary Reciprocating Engine)
Print Date: 10/27/2023

Make:	<input type="text" value="Clarke Fire Pump"/>	
Manufacturer:	<input type="text" value="Clarke"/>	
Model:	<input type="text" value="JU6H-UFAD88"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="1.68"/>	
Class:	<input type="text"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Other"/>	
Description:	<input type="text" value="emergency"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text" value="237"/>	
Electric Output(KW):	<input type="text"/>	
Compression Ratio:	<input type="text"/>	
Ignition Type:	<input type="text" value="Compression"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text"/>	
Engine Exhaust Temperature (°F):	<input type="text"/>	
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	
Output Type:	<input type="text" value="Pump/Compressor"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Comments:	<input type="text" value="2013 model year; 6.8 liters/cylinder"/>	

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

02626 LNG PLANT STATION 240 BOP220001 E102 (Process Heater)
Print Date: 10/27/2023

Make:

Manufacturer:

Model:

Equipment Type Description:

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

Draft Type:

Firing Method:

Is the Process Heater using (check all that apply):

Low NOx Burner ☐

Type of Low NOx Burner:

Flue Gas Recirculation (FGR): ☒

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

☐ Yes
☒ No

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

☐ Yes
☒ No

Comments:

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

02626 LNG PLANT STATION 240 BOP220001 E103 (Process Heater)
Print Date: 10/27/2023

Make:

Manufacturer:

Model:

Equipment Type Description:

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

Draft Type:

Firing Method:

Is the Process Heater using (check all that apply):

Low NOx Burner ☐

Type of Low NOx Burner:

Flue Gas Recirculation (FGR): ☒

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

☐ Yes
☒ No

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

☐ Yes
☒ No

Comments:

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

02626 LNG PLANT STATION 240 BOP220001 E104 (Process Heater)
Print Date: 10/27/2023

Make:

Manufacturer:

Model:

Equipment Type Description:

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

Draft Type:

Firing Method:

Is the Process Heater using (check all that apply):

Low NOx Burner ☐

Type of Low NOx Burner:

Flue Gas Recirculation (FGR): ☒

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

☐ Yes
☒ No

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

☐ Yes
☒ No

Comments:

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

02626 LNG PLANT STATION 240 BOP220001 E105 (Process Heater)
Print Date: 10/27/2023

Make:

Manufacturer:

Model:

Equipment Type Description:

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

Draft Type:

Firing Method:

Is the Process Heater using (check all that apply):

Low NOx Burner ☐

Type of Low NOx Burner:

Flue Gas Recirculation (FGR): ☒

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

☐ Yes
☒ No

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

☐ Yes
☒ No

Comments:

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

LNG PLANT STATION 240 (02626)
BOP220001

Date: 10/27/2023

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.		
PT7	WH #1	Waterbath Heater #1- #4	Round	42	35	170	230.0	160.0	300.0	22,000.0	21,000.0	23,000.0	Up	
PT8	WH #2	Waterbath Heater #1- #4	Round	42	35	170	230.0	160.0	300.0	22,000.0	21,000.0	23,000.0	Up	
PT9	WH #3	Waterbath Heater #1- #4	Round	42	35	170	230.0	160.0	300.0	22,000.0	21,000.0	23,000.0	Up	
PT10	WH #4	Waterbath Heater #1- #4	Round	42	35	170	230.0	160.0	300.0	22,000.0	21,000.0	23,000.0	Up	
PT11	H2	Glycol Heater	Round	10	18	274	400.0	250.0	1,000.0	783.0	261.0	783.0	Up	
PT12	H1	Regeneration Gas Heater	Round	16	21	271	625.0	500.0	750.0	2,668.0	485.0	4,850.0	Up	
PT15	GT-3001	Combustion Turbine	Square	108	49	100	504.5	60.0	956.0	53,628.0	53,628.0	107,266.0	Up	
PT33	F-6001	Emergency Flare	Round	300	91	100	1,300.0	1,200.0	1,400.0	1,409.0	1,253.0	1,566.0	Up	
PT101	EFP	EMERG FIRE PUMP	Round	5	4	470	986.0	789.0	1,183.0	1,189.0	951.0	1,427.0	Up	
PT102	WH #1	Waterbath Heater #1	Rectangle	42	40	170	230.0	160.0	300.0	22,000.0	21,000.0	23,000.0	Up	
PT103	WH #2	Waterbath Heater #2	Rectangle	42	40	170	230.0	160.0	300.0	22,000.0	21,000.0	23,000.0	Up	
PT104	WH #3	Waterbath Heater #3	Rectangle	42	40	170	230.0	160.0	300.0	22,000.0	21,000.0	23,000.0	Up	
PT105	WH #4	Waterbath Heater #4	Rectangle	42	40	170	230.0	160.0	300.0	22,000.0	21,000.0	23,000.0	Up	

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U 3 FLR Emergency Flare

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	P-6001	Emergency Flare - Continuous Pilots and Sweep Flows	Normal - Steady State	E33		PT33		0.0	8,760.0		0.0	1,566.0	1,200.0	1,400.0

U 7 WH1 Waterbath Heaters

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	Waterbath 1	Waterbath Heater #1	Normal - Steady State	E7		PT7		0.0	400.0		21,000.0	23,000.0	160.0	300.0
OS2	Waterbath 2	Waterbath Heater #2	Normal - Steady State	E8		PT8		0.0	400.0		21,000.0	23,000.0	160.0	300.0
OS3	Waterbath 3	Waterbath Heater #3	Normal - Steady State	E9		PT9		0.0	400.0		21,000.0	23,000.0	160.0	300.0
OS4	Waterbath 4	Waterbath Heater #4	Normal - Steady State	E10		PT10		0.0	400.0		21,000.0	23,000.0	160.0	300.0
OS5	Waterbath 1	Waterbath Heater #1	Normal - Steady State	E102		PT102		0.0	1,600.0		21,000.0	23,000.0	160.0	300.0
OS6	Waterbath 2	Waterbath Heater #2	Normal - Steady State	E103		PT103		0.0	1,600.0		21,000.0	23,000.0	160.0	300.0
OS7	Waterbath 3	Waterbath Heater #3	Normal - Steady State	E104		PT104		0.0	1,600.0		21,000.0	23,000.0	160.0	300.0

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U 7 WH1 Waterbath Heaters

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.
OS8	Waterbath 4	Waterbath Heater #4	Normal - Steady State	E105		PT105		0.0	1,600.0		21,000.0	23,000.0	160.0	300.0

U 11 H2 Glycol Heater, 2.5 MMBtu/hr, Natural Gas

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	OS1	Glycol Heater	Normal - Steady State	E11		PT11		0.0	8,760.0		452.0	1,052.0	230.0	900.0

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U 12 H1 Regeneration Gas Heater, Natural Gas

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	5,110 hrs/yr	Regeneration Gas Heater	Normal - Steady State	E12		PT12	1-02-006-03	0.0	5,110.0		485.0	4,850.0	500.0	750.0

U 14 CT 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	OS1	Condensate Tank	Normal - Steady State	E14		PT15		0.0	8,760.0					

U 15 Turbine Solar Taurus 60 Gas Turbine Compressor

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	Turbine	Natural Gas- Fired Combustion Turbine	Normal - Steady State	E15		PT15		0.0	8,760.0		0.0	107,266.0	60.0	1,009.0

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U 15 Turbine Solar Taurus 60 Gas Turbine Compressor

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	Turbine SU	Startup for Natural Gas-Fired Combustion Turbine	Normal - Steady State	E15		PT15			50.0		0.0	107,266.0	60.0	1,009.0
OS3	Turbine SD	Shutdown for Natural Gas-Fired Combustion Turbine	Normal - Steady State	E15		PT15			50.0		0.0	107,266.0	60.0	1,009.0
OS4	<0F Turbine	Natural Gas-Fired Combustion Turbine Sub-Zero Operation	Normal - Steady State	E15		PT15		0.0	40.0		0.0	107,266.0	60.0	1,009.0

U 101 EFP Emergency Fire Pump, 177 kW, 2013 Model Year, Displacement < 10 liters/cylinder, subject to NSPS Subpart IIII

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	EFP	EMERG FIRE PUMP	Normal - Steady State	E101		PT101			100.0			1,189.0		986.0