



State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

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

Trenton, NJ 08625-0420

PHILIP D. MURPHY

Governor

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SHAWN M. LATOURETTE

COMMISSIONER

Air Pollution Control Operating Permit Renewal

Permit Activity Number: BOP210001

Program Interest Number: 26239

Mailing Address	Plant Location
ROY G. TAYLOR GENERAL MANAGER NE OPERATIONS ALGONQUIN GAS TRANSMISSION CO 890 WINTER STREET, SUITE 320 WALTHAM, MA 02451	ALGONQUIN GAS TRANSMISSION HANOVER COMP ST 45 Airport Rd Hanover Morris County

Initial Operating Permit Approval Date: 8/14/2002

Operating Permit Approval Date: PROPOSED

Operating Permit Expiration Date: T B D

AUTHORITY AND APPLICABILITY

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

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

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

PERMIT SHIELD

Equipment at the facility referenced by this modification **is not covered by** the permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17.

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

ACCESSING PERMITS

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

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

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

ADMINISTRATIVE HEARING REQUEST

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

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

Approved by:

Shafi Ahmed

Enclosure

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

Facility Name: ALGONQUIN GAS TRANSMISSION HANOVER COMP ST
Program Interest Number: 26239
Permit Activity Number: BOP210001

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Section A

Facility Name: ALGONQUIN GAS TRANSMISSION HANOVER COMP ST

Program Interest Number: 26239

Permit Activity Number: BOP210001

POLLUTANT EMISSIONS SUMMARY

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

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} ² (total)	Pb	HAPs* (total)	CO ₂ e ³
Emission Units Summary	5.19	46.99	65.01	1.47	4.35	4.35	NA	NA	1.82	
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	5.19	46.99	65.01	1.47	4.35	4.35	NA	NA	1.82	75,128

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

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs (total)
Insignificant Source Operations	2.01	0.8	0.61	0.005	0.55	0.55	NA	NA	0.31
Non-Source Fugitive Emissions ⁴	3.2	NA	NA	NA	NA	NA	NA	NA	0.14

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.

³ Non-Source Fugitive Emissions are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

Section A

Facility Name: ALGONQUIN GAS TRANSMISSION HANOVER COMP ST

Program Interest Number: 26239

Permit Activity Number: BOP210001

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
Acrolein	0.0135
Formaldehyde	1.81

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

Other Air Contaminant	TPY
N/A	

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

Section B

Facility Name: ALGONQUIN GAS TRANSMISSION HANOVER COMP ST

Program Interest Number: 26239

Permit Activity Number: BOP210001

GENERAL PROVISIONS AND AUTHORITIES

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

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

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

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

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

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

Section C

Facility Name: ALGONQUIN GAS TRANSMISSION HANOVER COMP ST

Program Interest Number: 26239

Permit Activity Number: BOP210001

STATE-ONLY APPLICABLE REQUIREMENTS

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

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

<u>SECTION</u>	<u>SUBJECT ITEM</u>	<u>ITEM #</u>	<u>REF. #</u>
B	---	1	---
B	---	10b	---
D	FC	---	3
D	FC	---	9

Section D

Facility Name: ALGONQUIN GAS TRANSMISSION HANOVER COMP ST
Program Interest Number: 26239
Permit Activity Number: BOP210001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

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Facility (FC):

FC	1
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Insignificant Sources (IS):

IS NJID	IS Description	
IS1	Glycol Heater <1 MMBtu/hr	7
IS3	Source Control Vent <50 lb/hr raw material throughput	8
IS4	Shafer Valve Vents <50 lb/hr raw material throughput	9
IS8	Boiler 0.53 MM BTU/hr	10

Emission Units (U):

U NJID	U Designation	U Description	
U1	TurbinesE1E2	Two Compressor Turbines (Solar, Taurus T-7300), each - 67.84 MMBtu/hr, 7,520 BHP, Natural Gas Fired, Subject to NSPS GG	11
U2	V-14	Pipeline Liquids Storage Tank (2,940 Gallons)	24
U4	TurbineE5	Compressor Turbine (Solar, Taurus 60-7800), 73.28 MMBtu/hr, 8,412 BHP, Natural Gas Fired, Subject to NSPS KKKK	25
U5	E Generator	Emergency Generator (Waukesha VGF24GL), 4.63 MMBtu/hr, 585 BHP, Natural Gas Fired (Model Year: 2008)	39

ALGONQUIN GAS TRANSMISSION HANOVER COMP ST (26239)
BOP210001

Date: 6/20/2023

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 190002

Description

of Modifications: Algonquin Gas Transmission, LLC, is submitting this Title V Operating Permit 5-Year Renewal for its Hanover Compressor Station. Please refer to the cover letter and attachments for additional details.

BOP210001

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

Subject Item: FC

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

BOP210001

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

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

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

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

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

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

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

Subject Item: IS1 Glycol Heater <1 MMBtu/hr

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

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

Subject Item: IS3 Source Control Vent <50 lb/hr raw material throughput

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % Emissions no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than three minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	On or before March 1 of each year, submit a report to Northern Regional Office, setting forth 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. A "blowdown event" means the non-emergency release of natural gas from a pipeline for the purpose of inspection, maintenance or repair and where, in the absence of control, more than 2,000 pounds of VOC could be released to the atmosphere. [N.J.A.C. 7:27-16.21(c)]	None.	None.	Submit a report: Annually to the Northern Regional Office before March 1 of each year. [N.J.A.C. 7:27-16.21(c)]
3	A copy of the Control Measure Plan required by N.J.A.C. 7:27-16.21(a) shall be maintained at the office having operating responsibility for the section of pipeline in which the blowdown event(s) will occur. A copy of such plan will be provided to the Department within three days of receipt of a written request from the Department. [N.J.A.C. 7:27-16.21(d)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: IS4 Shafer Valve Vents <50 lb/hr raw material throughput

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % Emissions no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than three minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	<p>On or before March 1 of each year, submit a report to Northern Regional Office, 1259 Route 46 East, Bldg. #2, Parsippany, NJ 07054-4191, setting forth 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.</p> <p>A "blowdown event" means the non-emergency release of natural gas from a pipeline for the purpose of inspection, maintenance or repair and where, in the absence of control, more than 2,000 pounds of VOC could be released to the atmosphere. [N.J.A.C. 7:27-16.21(c)]</p>	None.	None.	Submit a report: Annually to the Northern Regional Office before March 1 of each year. [N.J.A.C. 7:27-16.21(c)]
3	A copy of the Control Measure Plan required by N.J.A.C. 7:27-16.21(a) shall be maintained at the office having operating responsibility for the section of pipeline in which the blowdown event(s) will occur. A copy of such plan will be provided to the Department within three days of receipt of a written request from the Department. [N.J.A.C. 7:27-16.21(d)]	None.	None.	None.

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

Subject Item: IS8 Boiler 0.53 MM BTU/hr

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U1 Two Compressor Turbines (Solar, Taurus T-7300), each - 67.84 MMBtu/hr, 7,520 BHP, Natural Gas Fired, Subject to NSPS GG
Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	SUMMARY OF FEDERAL REGULATIONS: * Subject to 40 CFR 60, NSPS Subpart A - General Provisions. * Subject to 40 CFR 60, NSPS Subpart GG - Standards of Performance for Stationary Gas Turbines. [40 CFR Federal Rules Summary]	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
2	<p>RENEWAL STACK TESTING SUMMARY:</p> <p>The permittee shall conduct a stack test no later than every five years (see General Provisions) to demonstrate compliance from the initial startup using an approved protocol, with emission limits for NO_x and CO as specified in the compliance plan for OS1 and OS2. The permittee shall provide EMS with the turbine load performance curve with the protocol.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing every 5 years (based on completion date of the last stack test).</p> <p>Monitoring as required under the applicable operating scenario(s). Unless otherwise approved in the stack test protocol or by the Department, each test run shall be 60 minutes in sampling duration. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [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.</p> <p>Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 12 months prior to the completion of the five year period since the last stack test. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The owner or operator of a stationary combustion turbine that has a maximum gross heat input rate of 25 million BTU per hour or more and associated duct burner (if a duct burner is installed) shall adjust the combustion process in accordance with the procedure set forth at N.J.A.C. 7:27-19.16(g) and in accordance with the manufacturer's recommended procedures and maintenance schedules for those sources. [N.J.A.C 7:27-22.16(a)], [N.J.A.C. 7:27-16.9(f)] and [N.J.A.C. 7:27-19.5(e)]	Other: Monitored by continuous emission monitoring (CEMS) or by periodic emission monitoring upon performing combustion adjustment. If not using a certified CEMS, monitoring shall be performed in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005. [N.J.A.C. 7:27-19.16(g)].	Recordkeeping by data acquisition system (DAS) / electronic data storage upon performing combustion adjustment or by manual logging of parameter or storing data in a computer data system. The permittee shall record the following information for each adjustment in a log book or computer data system: 1. The date and times the adjustment began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentration of NO _x , CO, and O ₂ measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment. The records shall be kept for a minimum of 5 years and be readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(h)]	None.
4	CO ≤ 37.3 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	NO _x (Total) ≤ 30.6 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	VOC (Total) ≤ 2.14 tons/yr , including Formaldehyde. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO ₂ ≤ 0.38 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	TSP ≤ 2.24 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	PM-10 (Total) ≤ 2.24 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

U1 Two Compressor Turbines (Solar, Taurus T-7300), each - 67.84 MMBtu/h

OS Summary

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	PM-2.5 (Total) <= 2.24 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Acrolein <= 0.0068 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Formaldehyde <= 1.07 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	Natural Gas Usage <= 130,026 ft ³ /hr. Natural gas use limit based on combined operation of GT-1B & GT-2B, based on BOP150001. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
14	Only natural gas shall be burned in the gas turbines. The only fuel line to the turbine shall be a natural gas fuel line. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	A Dry Low-NO _x Burner/Combustor shall be used at all times that the combustion turbines E1 and E2 are operating. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
16	Natural Gas Usage <= 650.13 MMft ³ /yr. This limit is cumulative for both turbines, E1 and E2. Cubic feet of natural gas consumed during any consecutive 12-month period shall be calculated by adding the natural gas consumption for a given month to the cubic feet of natural gas consumed during the preceding 11-month period. This procedure will begin the first month following the issuance of the Operating Permit. This accounting shall not include natural gas consumption for the month prior to the Operating Permit approval. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Compliance shall be based on consecutive 12-month period computed with monthly sums. [N.J.A.C. 7:27-22.16(e)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in section 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or soon as practicable before any change is commenced. [NSPS, Subpart A - General Provisions]. [40 CFR 60.7(a)(4)]	None.	None.	Comply with the requirement: Upon occurrence of event. Submit notification to EPA Region II and the Northern Regional Office as required per 40 CFR 60.7 . [40 CFR 60.7(a)(4)]
18	The owner or operator shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. [NSPS, Subpart A - General Provisions]. [40 CFR 60.7(b)]	None.	Other: Recordkeeping by manual logging of the parameters specified in 40 CFR 60.7(b) in a permanently bound log book.[40 CFR 60.7(b)].	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	<p>Submit excess emissions and monitoring systems performance report and/or a summary report to the EPA Region 2 Administrator and the Northern Regional Enforcement Office.</p> <p>Each owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see 40 CFR 60.7(d)) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source.</p> <p>All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). [NSPS, Subpart A - General Provisions]. [40 CFR 60.7(c)]</p>	None.	<p>Other: Written reports of excess emissions shall include the following information:</p> <p>1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.</p> <p>2) Specific identification of each period of excess emissions that occurs during start-ups, shutdowns and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.</p> <p>3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and nature of the system repairs or adjustments.</p> <p>4) When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.[40 CFR 60.7(c)].</p>	<p>Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal.</p> <p>The report shall be postmarked by the 30th day following the end of each calendar quarter.</p> <p>The report shall be submitted to the EPA Region 2 Administrator, the NJDEP Northern Regional Office and Chief, Emission Measurement Section (EMS), NJDEP-EMS, Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625-0420, and shall be in a format as specified at 40 CFR Part 60.7(c) and 40 CFR Part 60.7(d). [40 CFR 60.7(c)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	Any owner or operator subject to the provisions of this part shall maintain a file of all monitoring measurements, including continuous monitoring system, monitoring device and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. [NPS, Subpart A - General Provisions]. [40 CFR 60.7(f)]	None.	Other: See Applicable Requirement.[40 CFR 60.7(f)].	None.
21	At all times, including periods of start-up, shutdown and malfunctions, 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. [NPS, Subpart A - General Provisions]. [40 CFR 60.11(d)]	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
22	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. [NSPS, Subpart A - General Provisions]. [40 CFR 60.12]	None.	None.	None.
23	NOx (Total) <= 150 ppmvd @ 15% O2. [NSPS, Subpart GG - Standards of Performance for Stationary Gas Turbines]. [40 CFR 60.332(a)(2)]	None.	None.	None.
24	Sulfur Content in Fuel <= 0.8 % by weight. No owner or operator subject to the provisions of this subpart shall burn any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). [NSPS, Subpart GG - Standards of Performance for Stationary Gas Turbines]. [40 CFR 60.333(b)]	None.	Other: The permittee shall maintain FERC Gas Tariff, showing compliance.[40 CFR 60.335].	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U1 Two Compressor Turbines (Solar, Taurus T-7300), each - 67.84 MMBtu/hr, 7,520 BHP, Natural Gas Fired, Subject to NSPS GG

Operating Scenario: OS1 Normal Operations NG GT-1B, OS2 Normal Operations NG GT-2B

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 12.8 lb/hr based on rated maximum heat input of 76.83 MMBtu/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack Test Requirements U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U1/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	NO _x (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	NO _x (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
5	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
6	CO <= 7.45 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack Test Requirements U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U1/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]

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7	CO <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack Test Requirements U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U1/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	NO _x (Total) <= 0.09 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	NO _x (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack Test Requirements U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U1/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]
9	NO _x (Total) <= 6.12 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NO _x (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack Test Requirements U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U1/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]
10	NO _x (Total) <= 25 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	NO _x (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack Test Requirements U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U1/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U1/OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	VOC (Total) <= 0.43 lb/hr , including Formaldehyde. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	VOC (Total) <= 25 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

U1 Two Compressor Turbines (Solar, Taurus T-7300), each - 67.84 MMBtu/h:

OS1, OS2

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	SO ₂ ≤ 0.077 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	TSP ≤ 0.45 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	PM-10 (Total) ≤ 0.45 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
16	PM-2.5 (Total) ≤ 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Acrolein ≤ 0.00945 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Formaldehyde ≤ 0.22 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Maximum Gross Heat Input ≤ 67.84 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
20	Natural Gas Usage ≤ 325.065 MMft ³ /yr. Annual natural gas use limit for any 12 consecutive months based on the preconstruction permit. Total cubic feet of natural gas consumed by this turbine during any consecutive 12-month period shall be calculated by adding the fuel consumption of the turbine for a given month to the cubic feet of natural gas consumed during the preceding 11 months. This procedure will begin the first month following the issuance of the Operating Permit. The accounting shall not include natural gas consumption for the month preceding the Operating Permit approval. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation. Compliance shall be based on 12 consecutive month period computed with monthly sums. [N.J.A.C. 7:27-22.16(e)]	None.

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Facility Specific Requirements

Emission Unit: U1 Two Compressor Turbines (Solar, Taurus T-7300), each - 67.84 MMBtu/hr, 7,520 BHP, Natural Gas Fired, Subject to NSPS GG

Operating Scenario: OS3 Startup NG GT-1B, OS4 Startup NG GT-2B

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 12.8 lb/hr. Particulate emission limit from the combustion of fuel based on rated maximum heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
4	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
5	Start-up Period <= 30 minutes. Start-up is defined as that period of time from initiation of fuel firing for the operation of the combustion turbine until that combustion turbine reaches steady state operation. [N.J.A.C. 7:27-22.16(e)]	Start-up Period: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Start-up Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Comply with the requirement: Upon occurrence of event. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [N.J.A.C. 7:27-22.16(o)]
6	Acrolein <= 0.00945 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Formaldehyde <= 0.213 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Emission Unit: U1 Two Compressor Turbines (Solar, Taurus T-7300), each - 67.84 MMBtu/hr, 7,520 BHP, Natural Gas Fired, Subject to NSPS GG

Operating Scenario: OS5 Shutdown NG GT-1B, OS6 Shutdown NG GT-2B

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 12.8 lb/hr based on rated maximum heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
4	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
5	Shutdown Period <= 30 minutes. Shutdown is defined as that period of time from the initial lowering of combustion turbine output, below steady state operating load, to the cessation of fuel firing for that combustion turbine's operation. [N.J.A.C. 7:27-22.16(e)]	Shutdown Period: Monitored by hour/time monitor continuously, based on no averaging period. [N.J.A.C. 7:27-22.16(e)]	Shutdown Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(e)]	None.
6	Acrolein <= 0.00945 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Formaldehyde <= 0.213 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Emission Unit: U2 Pipeline Liquids Storage Tank (2,940 Gallons)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall store VOC in any stationary tank having a maximum capacity of 2,000 gallons or more and exposed to the sun unless the tank is painted white. [N.J.A.C. 7:27-16.2(a)1]	Other: Visual Determination.[N.J.A.C. 7:27-16.2(a)1].	None.	None.
2	Maintain records specifying VOC stored and the vapor pressure of VOC at standard conditions. [N.J.A.C. 7:27-16.2(k)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-16.2(k)]	None.
3	Tank content limited to natural gas condensate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum annual throughput <= 5,880 gal/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)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.

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Emission Unit: U4 Compressor Turbine (Solar, Taurus 60-7800), 73.28 MMBtu/hr, 8,412 BHP, Natural Gas Fired, Subject to NSPS KKKK

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>SUMMARY OF FEDERAL REGULATIONS:</p> <p>* Subject to 40 CFR 60, NSPS Subpart A - General Provisions</p> <p>* Subject to 40 CFR 60, NSPS Subpart KKKK - Standards of Performance for Stationary Gas Turbines. [40 CFR Federal Rules Summary]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	<p>RENEWAL STACK TESTING SUMMARY:</p> <p>The permittee shall conduct a stack test no later than every five years (see General Provisions) from the last stack test using an approved protocol to demonstrate compliance with emission limits for CO, NOx and VOC as specified in the compliance plan for OS1. The permittee shall provide EMS with the turbine load performance curve with the protocol.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing every 5 years (based on completion date of the last stack test) as specified in OS1. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) :</p> <p>Recordkeeping as required under the applicable operating scenario(s). [40 CFR 60.4340(a)]</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 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 609-984-3443 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>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>BIENNIAL STACK TESTING SUMMARY:</p> <p>The permittee shall conduct a stack test biennially for NO_x from the last stack test using an approved protocol to demonstrate compliance with emission limits for NO_x as specified in the compliance plan for OS1. The permittee shall provide EMS with the turbine load performance curve with the protocol.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [40 CFR 60.4340(a)]</p>	<p>Other: Monitored by Stack Emission Testing every two (2) years for NO_x (based on completion date of the last stack test). (See OS Summary, Ref. #23).</p> <p>Monitoring NO_x as required under the applicable operating scenario(s) and NSPS Subpart KKKK. [N.J.A.C. 7:27-22.16(o) and [40 CFR 60.4340(a)].</p>	<p>Other: Recordkeeping by Stack Test results every two (2) years for NO_x (based on completion date of the last stack test).</p> <p>Recordkeeping as required under the applicable operating scenario(s) and NSPS Subpart KKKK. [N.J.A.C. 7:27-22.16(o) and [40 CFR 60.4340(a)].</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 08625 no later than 12 months prior to the completion of the five year period since the last stack test.</p> <p>The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 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).</p> <p>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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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>The owner or operator of a stationary combustion turbine that has a maximum gross heat input rate of 25 million BTU per hour or more and associated duct burner (if a duct burner is installed) shall adjust the combustion process in accordance with the procedure set forth at N.J.A.C. 7:27-19.16(g) and in accordance with the manufacturer's recommended procedures and maintenance schedules for those sources.</p> <p>[N.J.A.C 7:27-22.16(a)], [N.J.A.C. 7:27-16.9(f)] and [N.J.A.C. 7:27-19.5(e)]</p>	<p>Other: Monitored by continuous emission monitoring (CEMS) or by periodic emission monitoring upon performing combustion adjustment. If not using a certified CEMS, monitoring shall be performed in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005.</p> <p>[N.J.A.C. 7:27-19.16(g)].</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage upon performing combustion adjustment or by manual logging of parameter or storing data in a computer data system. The permittee shall record the following information for each adjustment in a log book or computer data system:</p> <p>1. The date and times the adjustment began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentration of NO_x, CO, and O₂ measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment.</p> <p>The records shall be kept for a minimum of 5 years and be readily accessible to the Department upon request.</p> <p>[N.J.A.C. 7:27-19.16(h)]</p>	None.
5	<p>CO ≤ 27.45 tons/yr. [N.J.A.C. 7:27-22.16(a)]</p>	<p>CO: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis).</p> <p>The annual emissions of total CO shall be calculated as follows:</p> <p>Total Monthly CO Emissions = [MMSCF of natural gas burned for the turbine per month x 1,020 BTU/ft³ x (1hr/73.28 MMBtu) x 4.02 lb/hr x 1ton/2000 lbs] + [(89.68 lb/hr x number of start ups per month x 0.5 hrs/startup + 91.99 lb/hr x number of shutdowns per month x 0.5 hrs/shutdown) x 1ton/2000 lbs]</p> <p>Total Annual CO Emissions is the sum of the monthly calculated values. [N.J.A.C. 7:27-22.16(o)]</p>	<p>CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation.</p> <p>[N.J.A.C. 7:27-22.16(o)]</p>	<p>Comply with the requirement: At no specified schedule. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [N.J.A.C. 7:27-22.16(o)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	NOx (Total) <= 16.2 tons/yr. [N.J.A.C. 7:27-22.16(a)]	<p>NOx (Total): Monitored by calculations each month during operation, based on a 12 calendar month period.</p> <p>The annual emissions of total NOx shall be calculated as follows:</p> <p>Total Monthly NOx Emissions =</p> <p>[MMSCF of natural gas burned for the turbine per month x 1,020 BTU/ft³ x (1/73.28 hr/MMBtu) x 3.97 lb/hr x 1ton/2000 lbs] + [(3.97 lb/hr x number of start ups per month x 0.5 hrs/startup + 4.81 lb/hr x number of shutdowns per month x 0.5 hrs/shutdown) x 1ton/2000 lbs]</p> <p>Total Annual NOx Emissions is the sum of the monthly calculated values. [N.J.A.C. 7:27-22.16(a)]</p>	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	Comply with the requirement: Every month. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [N.J.A.C. 7:27-22.16(o)]
7	VOC (Total) <= 2.93 tons/yr, including Formaldehyde. [N.J.A.C. 7:27-22.16(a)]	<p>VOC (Total): Monitored by calculations each month during operation, based on a 12 calendar month period.</p> <p>The annual emissions of total VOC shall be calculated as follows:</p> <p>Total Monthly VOC Emissions =</p> <p>[MMSCF of natural gas burned for the turbine per month x 1,020 BTU/ft³ x (1hr/73.28 MMBtu) x 0.50 lb/hr x 1ton/2000 lbs] + [(1.56 lb/hr x number of start ups per month x 0.5 hrs/startup + 1.57 lb/hr x number of shutdowns per month x 0.5 hrs/shutdown) x 1ton/2000 lbs]</p> <p>Total Annual VOC Emissions is the sum of the monthly calculated values plus value of Formaldehyde. [N.J.A.C. 7:27-22.16(o)]</p>	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	Comply with the requirement: Every month. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [N.J.A.C. 7:27-22.16(o)]
8	SO2 <= 1.09 tons/yr. [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
9	TSP <= 2.11 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 2.11 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) <= 2.11 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Acrolein <= 0.0067 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Formaldehyde <= 0.74 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Only natural gas shall be burned in the gas turbine. The only fuel line to the turbine shall be a natural gas fuel line. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Natural Gas Usage <= 71,841 ft ³ /hr. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
16	Natural Gas Usage <= 629.33 MMft ³ /yr. Cubic feet of natural gas consumed during any consecutive 12-month period shall be calculated by adding the natural gas consumption for a given month to the cubic feet of natural gas consumed during the preceding 11-month period. This procedure will begin the first month following the issuance of the Operating Permit. This accounting shall not include natural gas consumption for the month prior to the Operating Permit approval. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Compliance shall be based on consecutive 12-month period computed with monthly sums. [N.J.A.C. 7:27-22.16(o)]	None.
17	A Dry Low-NOx Burner/Combustor shall be used at all times that the combustion turbine E5 is operating. [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
18	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in section 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or soon as practicable before any change is commenced. [NSPS, Subpart A - General Provisions]. [40 CFR 60.7(a)(4)]	None.	None.	Comply with the requirement: Upon occurrence of event. Submit notification to EPA Region II and the Northern Regional Office as required per 40 CFR 60.7. [40 CFR 60.7(a)(4)]
19	The owner or operator shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. [NSPS, Subpart A - General Provisions]. [40 CFR 60.7(b)]	None.	Other: Recordkeeping by manual logging of the parameters specified in 40 CFR 60.7(b) in a permanently bound log book or data acquisition system (DAS)/electronic data storage.[40 CFR 60.7(b)].	None.
20	Any owner or operator subject to the provisions of this part shall maintain a file of all monitoring measurements, including continuous monitoring system, monitoring device and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. [NSPS, Subpart A - General Provisions]. [40 CFR 60.7(f)]	None.	Other: See Applicable Requirement.[40 CFR 60.7(f)].	None.

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Facility Specific Requirements**

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

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	NO _x (Total) ≤ 25 ppmvd @ 15% O ₂ . This limit applies to a turbine that has heat input at peak load greater than 50 MMBtu/hr (HHV) but less or equal to 850 MMBtu/hr (HHV) firing natural gas and which commenced construction after February 18, 2005. [40 CFR 60.4320(a)]	<p>NO_x (Total): Monitored by stack emission testing at the approved frequency, 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. The subsequent testing shall only be conducted if choosing to comply with 40 CFR 60.4340(a). Test methods and procedures shall be consistent with the requirements of 40 CFR 60.4400 or, if a NO_x diluent CEMS is installed, consistent with 40 CFR 60.4405. 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. For turbines with supplemental duct burner NO_x measurements shall be taken after the duct burner, which has to be in operation during the performance test.</p> <p>Monitoring NO_x biennially as required under the applicable operating scenario(s) and NSPS Subpart KKKK. [N.J.A.C. 7:27-22.16(o) and. [40 CFR 60.4400]</p>	NO _x (Total): Recordkeeping by stack test results at the approved frequency. [40 CFR 60.4400]	Submit a report: As per the approved schedule. 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)]
24	The owner or operator shall operate and maintain the subject stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown and malfunction. [40 CFR 60.4333(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	To demonstrate continuous compliance with NOx limit, the owner or operator of the turbine that does not use water or steam injection shall perform annual performance NOx tests in accordance with 40 CFR 60.4400. 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)]	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. Test methods and procedures shall be consistent with the requirements of 40 CFR 60.4400, annually or biennially. [40 CFR 60.4400]	Recordkeeping by stack test results annually or biennially. [40 CFR 60.4400]	None.
26	The permittee shall install, calibrate, maintain, and operate each fuel flowmeter in accordance with the manufacturer's instructions or, with NJDEP approval, in accordance with the requirements of appendix D to 40 CFR 75. [40 CFR 60.4345(c)]	Monitored by fuel flow/firing rate instrument continuously. Each fuel flowmeter shall be installed, calibrated, maintained and operated according to the manufacturer's instructions. Alternatively, with the NJDEP approval, fuel flowmeters that meet the installation, certification, and quality assurance requirements of appendix D to 40 CFR 75 are acceptable. [40 CFR 60.4345(c)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. The permittee shall develop and keep on-site a quality assurance (QA) plan for all of the continuous monitoring equipment. For NOx CEMS and fuel flow meters, the QA program and plan described in section 1 of appendix B to 40 CFR 75 may, with state approval, satisfy this requirement. [40 CFR 60.4345(e)]	None.
27	The owner or operator may elect not to monitor the total sulfur content of the fuel combusted in the turbine if the fuel is demonstrated not to exceed potential sulfur emissions of 0.060 lb SO ₂ /MMBtu heat input for units located in continental areas. [40 CFR 60.4365]	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 in continental areas the maximum total sulfur content for oil use is 0.05 weight percent (500 ppmw) and for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet. [40 CFR 60.4365(a)].	Recordkeeping by fuel certification receipts at the approved frequency. The owner or operator shall keep copies of valid purchase contracts, tariff sheets or transportation contracts specifying that in continental areas the maximum total sulfur content for oil use is 0.05 weight percent (500 ppmw) and for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet. [40 CFR 60.4365]	Demonstrate compliance: Once initially. The owner or operator shall submit the required determination to the Administrator using the sources of information described in 40 CFR 60.4365(a) showing the maximum total sulfur content for continental areas for oil use at 0.05 weight percent or less and for natural gas at 20 grains of sulfur or less per 100 standard cubic feet or to demonstrate that fuel has potential sulfur emissions of less than 0.060 lb SO ₂ /MMBtu heat input. [40 CFR 60.4365(a)]

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Emission Unit: U4 Compressor Turbine (Solar, Taurus 60-7800), 73.28 MMBtu/hr, 8,412 BHP, Natural Gas Fired, Subject to NSPS KKKK

Operating Scenario: OS1 Normal Operations NG GT-3B

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 13.3 lb/hr based on rated maximum heat input of 73.3 MMBtu/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	CO <= 250 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack Test Requirements U4/OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U4/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U4/OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	NO _x (Total) <= 42 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-19.5(l)]	NO _x (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack Test Requirements U4/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
5	VOC (Total) <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
6	CO <= 4.02 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack Test Requirements U4/OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U4/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U4/OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	CO <= 50 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [40 CFR 60.4340(a)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U4/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U4/OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	NO _x (Total) <= 3.97 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NO _x (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack Test Requirements U4/OS Summary. [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U4/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U4/OS Summary. [N.J.A.C. 7:27-22.16(a)]
9	NO _x (Total) <= 15 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)]	NO _x (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. In addition, stack testing shall be conducted biennially, per NSPS KKKK. See Stack Test Requirements U4/OS Summary. [N.J.A.C. 7:27-22.16(o) and. [40 CFR 60.4340(a)]	NO _x (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U4/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U4/OS Summary. [N.J.A.C. 7:27-22.16(o)]
10	VOC (Total) <= 1.035 lb/hr , including Formaldehyde. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	VOC (Total) <= 25 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See Stack Test Requirements U4/OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See Stack Test Requirements U4/OS Summary. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [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 U4/OS Summary. [N.J.A.C. 7:27-22.16(o)]
12	SO ₂ <= 0.25 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	TSP <= 0.48 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-10 (Total) <= 0.48 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-2.5 (Total) <= 0.48 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Acrolein <= 0.0048 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Formaldehyde <= 0.531 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Maximum Gross Heat Input <= 73.3 MMBTU/hr (HHV). Based on Higher Heating Value (HHV) of fuel. [N.J.A.C. 7:27-22.16(a)]	Other: fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Keep manufacturer construction/specification/data records for the life time of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.
19	Natural Gas Usage <= 629.33 MMft ³ /yr. Annual natural gas use limit for any 12 consecutive months. Total cubic feet of natural gas consumed by this turbine during any consecutive 12-month period shall be calculated by adding the fuel consumption of the turbine for a given month to the cubic feet of natural gas consumed during the preceding 11 months. This procedure will begin the first month following the issuance of the Operating Permit. The accounting shall not include natural gas consumption for the month preceding the Operating Permit approval. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation. Compliance shall be based on 12 consecutive month period computed with monthly sums. [N.J.A.C. 7:27-22.16(e)]	None.

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Facility Specific Requirements**

Emission Unit: U4 Compressor Turbine (Solar, Taurus 60-7800), 73.28 MMBtu/hr, 8,412 BHP, Natural Gas Fired, Subject to NSPS KKKK

Operating Scenario: OS2 Startup NG GT-3B

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 13.3 lb/hr based on rated maximum heat input of 73.3 MMBtu/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	CO <= 250 ppmv at 15% oxygen. [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
4	VOC (Total) <= 50 ppmv at 15% oxygen. [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
5	Start-up Period <= 30 minutes. Start-up is defined as that period of time from initiation of fuel firing for the operation of the combustion turbine until that combustion turbine reaches steady state operation. [N.J.A.C. 7:27-22.16(a)]	Start-up Period: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Start-up Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Comply with the requirement: Upon occurrence of event. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [N.J.A.C. 7:27-22.16(o)]
6	Acrolein <= 0.0048 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Formaldehyde <= 0.531 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements

Emission Unit: U4 Compressor Turbine (Solar, Taurus 60-7800), 73.28 MMBtu/hr, 8,412 BHP, Natural Gas Fired, Subject to NSPS KKKK

Operating Scenario: OS3 Shutdown NG GT-3B

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate emission limit from the combustion of fuel based on rated maximum heat input of 73.3 MMBtu/hr. Particulate Emissions <= 13.3 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	CO <= 250 ppmv at 15% oxygen. [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
4	VOC (Total) <= 50 ppmv at 15% oxygen. [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
5	Shutdown Period <= 30 minutes. Shutdown is defined as that period of time from the initial lowering of combustion turbine output, below steady state operating load, to the cessation of fuel firing for that combustion turbine's operation. [N.J.A.C. 7:27-22.16(a)]	Shutdown Period: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Shutdown Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Comply with the requirement: Upon occurrence of event. All records shall be kept on-site for at least five (5) years, readily made available to the Department upon request. [N.J.A.C. 7:27-22.16(o)]
6	Acrolein <= 0.0048 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Formaldehyde <= 0.531 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Emission Unit: U5 Emergency Generator (Waukesha VGF24GL), 4.63 MMBtu/hr, 585 BHP, Natural Gas Fired (Model Year: 2008)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	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.
2	Particulate Emissions <= 2.3 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.

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

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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.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The Emergency Generator may be operated at other locations (within the State of New Jersey) only in the event of an emergency, as defined at N.J.A.C. 7:27-19.1. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event.</p> <p>1. For each time the emergency generator is operated at a location other than the facility for which it is originally permitted in the event of an emergency, the Permittee of the emergency generator shall record the following:</p> <ul style="list-style-type: none"> i) Document the location (name of facility with address) where the emergency generator is operated; ii) Document the emergency that occurred and describe whether the emergency was due to internal or external loss of primary source of energy at the location; iii) If emergency is due to internal loss at the location, document the damages to the primary source of energy and the amount of time needed for repairs; iv) Document the date(s) of operation and the start up and shut down time on each date; v) Document the total operating time at the location based on the generator's hour meter and the total amount of fuel and fuel type used for the duration of the emergency; vi) The name and contact information of the operator of the emergency generator at the location. <p>2. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Submit notification: Upon occurrence of event the Permittee of the emergency generator must submit the Recordkeeping Requirements to the Regional Enforcement Office within 30 days of the occurrence of the emergency event.</p> <p>The Permittee of the emergency generator shall have the records as stated in the Recordkeeping Requirements on site within 30 days of the occurrence of the emergency event, maintain the record for a period of no less than 5 years after the record was made, and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)]</p>
6	CO ≤ 0.26 tons/yr based on the permitted hours per year of operation. [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
7	NO _x (Total) <= 0.19 tons/yr based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) <= 0.12 tons/yr based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Maximum Gross Heat Input <= 4.63 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Engine Rated Capacity. [N.J.A.C. 7:27-22.16(o)].	None.	None.
10	Generator fuel limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
12	The owner or operator shall keep records of engine manufacturer data for the life of the equipment showing the rated Maximum Gross Heat Input, Maximum Engine Power, and Manufacture Date. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator shall keep records of engine manufacturer data for the life of the equipment showing the rated Maximum Gross Heat Input, Maximum Engine Power, and Manufacture Date. [N.J.A.C. 7:27-22.16(o)].	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	The owner or operator shall change the oil and filter per manufacturer's recommended procedures and maintenance schedule. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator must keep records of the date and the hour meter reading at the time of each oil and filter replacement event. All records shall be maintained for a period of no less than five years and made readily accessible to the Department upon request. [N.J.A.C. 7:27-22.16(o)].	None.
14	The owner or operator shall inspect the spark plugs per manufacturer's recommended procedures and maintenance schedule, and replace as necessary. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator must keep records of the date and the hour meter reading at the time of each spark plugs inspection and/or replacement event. All records shall be maintained for a period of no less than five years and made readily accessible to the Department upon request. [N.J.A.C. 7:27-22.16(o)].	None.
15	The owner or operator shall inspect all hoses and belts per manufacturer's recommended procedures and maintenance schedule, and replace as necessary. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator must keep records of the date and the hour meter reading at the time of each hoses/belts inspection and/or replacement event. All records shall be maintained for a period of no less than five years and made readily accessible to the Department upon request. [N.J.A.C. 7:27-22.16(o)].	None.

BOP210001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U5 Emergency Generator (Waukesha VGF24GL), 4.63 MMBtu/hr, 585 BHP, Natural Gas Fired (Model Year: 2008)

Operating Scenario: OS1 Normal Operations

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 5.16 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 3.87 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 2.32 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Algonquin Gas Transmission Hanover Compr

Facility ID (AIMS): 26239

Street 45 AIRPORT RD
Address: HANOVER, NJ 07960

Mailing 45 AIRPORT RD
Address: PO BOX 1642
PO BOX 1642
HANOVER, NJ 07960

County: Morris

Location
Description:

State Plane Coordinates:

X-Coordinate: 742,540

Y-Coordinate: 742,540

Units: Long/Lat

Datum: Unknown

Source Org.: Address Match

Source Type: Digital Image

Industry:

Primary SIC: 4922

Secondary SIC:

NAICS: 486210

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: Enbridge

Org. Type: Corporation

Name: Roy G. Taylor

NJ EIN: 00042127237

Title: Director, Field Ops - NE Region

Phone: (617) 560-2239 x

Mailing Address: Algonquin Gas Transmission

Fax: () - x

890 Winter St., Suite 320

Other: () - x

Waltham, MA 02451

Type:

Email: roy.taylor@enbridge.com

Contact Type: BOP - Operating Permits

Organization: Enbridge

Org. Type: Corporation

Name: Phillip Wiedenfeld

NJ EIN:

Title: Environmental Supervisor

Phone: (713) 627-6608 x

Mailing Address: Algonquin Gas Transmission

Fax: (713) 386-4454 x

Energy Center Five, Suite 1100

Other: () - x

915 N Eldridge Parkway

Type:

Houston, TX 77079

Email: phillip.wiedenfeld@enbridge.com

Contact Type: Emission Statements

Organization: Enbridge

Org. Type: Corporation

Name: Phillip Wiedenfeld

NJ EIN:

Title: Environmental Supervisor

Phone: (713) 627-6608 x

Mailing Address: Algonquin Gas Transmission

Fax: (713) 386-4454 x

Energy Center Five, Suite 1100

Other: () - x

915 N Eldridge Parkway

Type:

Houston, TX 77079

Email: phillip.wiedenfeld@enbridge.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Fees/Billing Contact

Organization: Enbridge

Org. Type: Corporation

Name: Phillip Wiedenfeld

NJ EIN:

Title: Environmental Supervisor

Phone: (713) 627-6608 x

Mailing Address: Algonquin Gas Transmission
Energy Center Five, Suite 1100
915 N Eldridge Parkway
Houston, TX 77079

Fax: (713) 386-4454 x

Other: () - x

Type:

Email: phillip.wiedenfeld@enbridge.com

Contact Type: General Contact

Organization: Enbridge

Org. Type: Corporation

Name: Susann Brown

NJ EIN:

Title: Regional Environment Advisor - NE Region

Phone: (908) 821-1825 x

Mailing Address: Algonquin Gas Transmission
501 Coolidge Street
South Plainfield, NJ 07080

Fax: () - x

Other: () - x

Type:

Email: susann.brown@enbridge.com

Contact Type: Operator

Organization: Algonquin Gas Transmission, LLC.

Org. Type: Corporation

Name: Algonquin Gas Transmission, LLC.

NJ EIN: 00042127237

Title:

Phone: () - x

Mailing Address: Energy Center Five
Suite 1100
915 N Eldridge Parkway
Houston, TX 77079

Fax: () - x

Other: () - x

Type:

Email:

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Owner (Current Primary)

Organization: Algonquin Gas Transmission, LLC

Org. Type: Corporation

Name: Algonquin Gas Transmission, LLC

NJ EIN: 00042127237

Title: Owner

Phone: (713) 627-5400 x

Mailing Enbridge

Fax: (713) 989-3191 x

Address: Algonquin Gas Transmission, LLC

Other: () - x

Energy Center Five, Suite 1100

Houston, TX 77079

Type:

Email: roy.taylor@enbridge.com

Contact Type: Owner (Former)

Organization: Algonquin Gas Transmission LLC

Org. Type: Corporation

Name: Thomas V. Wooden Jr

NJ EIN: 00042127237

Title: Vice President Field Operations

Phone: (713) 627-4790 x

Mailing P.O. Box 1642

Fax: () - x

Address: Houston, TX 77251

Other: () - x

Type:

Email: tvwooden@spectraenergy.com

Contact Type: Responsible Official

Organization: Enbridge

Org. Type: Corporation

Name: Roy G. Taylor

NJ EIN: 00042127237

Title: Director, Field Ops - NE Region

Phone: (617) 560-2239 x

Mailing Algonquin Gas Transmission

Fax: () - x

Address: 890 Winter St., Suite 320

Other: () - x

Waltham, MA 02451

Type:

Email: roy.taylor@enbridge.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Responsible Party

Organization: Enbridge

Org. Type: Corporation

Name: Roy G. Taylor

NJ EIN:

Title: Director, Field Ops - NE Region

Phone: (617) 560-2239 x

Mailing Address: Algonquin Gas Transmission
890 Winter St., Suite 320
Waltham, MA 02451

Fax: () - x

Other: () - x

Type:

Email: roy.taylor@enbridge.com

ALGONQUIN GAS TRANSMISSION HANOVER COMP ST (26239)
BOP210001

Date: 6/20/2023

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	Glycol Heater <1 MMBtu/hr	Process Heater	Auxiliary Building	0.026	0.474	0.398	0.003	0.036	0.036		0.00900000	
IS2	350-gal and 650-gal Lube Oil Tank <10,000 gal, and vapor pressure <0.02psia	Storage Vessel	350-gallon tank-outside north of the control room and 650-gallon tank-inside the compressor building	0.001								
IS3	Source Control Vent <50 lb/hr raw material throughput	Other Equipment	Station valve yard	1.349							0.17700000	
IS4	Shafer Valve Vents <50 lb/hr raw material throughput	Other Equipment	Station valve yard	0.029							0.00400000	
IS5	Store/Use VOC Chemicals <2,000 gal capacity, and <0.5 gal/hr and <2.5 gal/day surface coating used	Other Equipment	Located throughout entire facility	0.500							0.05000000	
IS6	Store/Use Non-VOC Chemicals <10,000 gal capacity, and <0.5 gal/hr and <50 lb/hr raw material throughput	Other Equipment	Located throughout entire facility					0.500	0.500		0.05000000	

ALGONQUIN GAS TRANSMISSION HANOVER COMP ST (26239)
BOP210001

Date: 6/20/2023

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)
IS7	VOC Truck Loading (<1,000 lb/yr VOC emissions)	Other Equipment	North of the parking lot (adjacent to the main entrance)	0.027							0.00100000	
IS8	Boiler 0.53 MM BTU/hr	Boiler	Adjacent to the northern side of the auxiliary building	0.078	0.330	0.210	0.002	0.017	0.017		0.01900000	
Total				2.010	0.804	0.608	0.005	0.553	0.553	0.000	0.31000000	0.000

BOP210001

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

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E1	GT-1B	Compressor Turbine, 67.84 MMBtu/hr, 7,520 BHP, Natural Gas	Combustion Turbine	PCP010001	11/1/1985	No	7/24/2001	
E2	GT-2B	Compressor Turbine, 67.84 MMBtu/hr, 7,520 BHP, Natural Gas	Combustion Turbine	PCP010001	11/1/1985	No	7/24/2001	
E3	V-14	2,940-gal Pipeline Liquids Tanks	Storage Vessel	PCP010001	5/15/1995	No	7/24/2001	
E5	GT-3B	Compressor Turbine, 73.28 MMBtu/hr, 8,412 BHP, Natural Gas	Combustion Turbine	BOP060001	12/31/2006	No		
E6	EGEN2	Emergency Generator, 4.63 MMBtu/hr, 585 BHP, Natural Gas Fired (Model Year: 2008)	Emergency Generator	BOP060001	1/15/2008	No		

26239 ALGONQUIN GAS TRANSMISSION HANOVER COMP ST BOP210001 E2 (Combustion Turbine)
Print Date: 6/20/2023

Make:	Taurus		
Manufacturer:	Solar Turbines, Inc.		
Model:	T-7300		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	67.84		
Type of Turbine:	Industrial		
Type of Cycle:	Simple-Cycle	Description:	
Industrial Application:	Compressor	Description:	
Power Output:	7,520.00	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 checked="" type="checkbox"/>	Description:	Natural Gas Fired
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 checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No		
Comments:	A plot plan that illustrates the location of the turbine and turbine stack is attached. No manufacturer's data is attached. 7,520 BHP		

26239 ALGONQUIN GAS TRANSMISSION HANOVER COMP ST BOP210001 E1 (Combustion Turbine)
Print Date: 6/20/2023

Make:	Taurus		
Manufacturer:	Solar Turbines, Inc.		
Model:	T-7300		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	67.84		
Type of Turbine:	Industrial		
Type of Cycle:	Simple-Cycle	Description:	
Industrial Application:	Compressor	Description:	
Power Output:	7,520.00	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 checked="" type="checkbox"/>	Description:	Natural Gas Fired
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 checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No		
Comments:	A plot plan that illustrates the location of the turbine and turbine stack is attached. No manufacturer's data is attached. 7,520 BHP		

26239 ALGONQUIN GAS TRANSMISSION HANOVER COMP ST BOP210001 E3 (Storage Vessel)

Print Date: 6/20/2023

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

Liquids Only ▼

Storage Vessel Type:

Tank ▼

Design Capacity:

2,940

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):

5.00

Length (ft):

Width (ft):

Diameter (ft):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged ▼

Description (if other):

Maximum Design Fill Rate:

150.00

Units:

gal/min ▼

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

Roof ▼

Roof Type:

Horizontal 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?

Does the storage vessel

26239 ALGONQUIN GAS TRANSMISSION HANOVER COMP ST BOP210001 E3 (Storage Vessel)

Print Date: 6/20/2023

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

26239 ALGONQUIN GAS TRANSMISSION HANOVER COMP ST BOP210001 E5 (Combustion Turbine)
Print Date: 6/20/2023

Make:	Taurus		
Manufacturer:	Solar Turbines, Inc.		
Model:	Taurus 60-7800		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	73.28		
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 checked="" type="checkbox"/>	Description:	Natural Gas Fired
Is the turbine Equipped with a Duct Burner?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No		
Comments:	Maximum heat input and power output are at site conditions (0 deg F). Subpart KKKK applicable - Stationary combustion turbines that commenced construction, modification or reconstruction after February 18, 2005.		

26239 ALGONQUIN GAS TRANSMISSION HANOVER COMP ST BOP210001 E6 (Emergency Generator)
Print Date: 6/20/2023

Make:			
Manufacturer:	Waukesha		
Model:	VGF24GL		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	4.63		
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	corrected sheet under BOP 150001. The generator was ordered in January 2008, manufactured in June 2008, and physically installed in September 2008. Model year 2008 is not subject to NSPS JJJJ or MACT ZZZZ area source HAPs. (585 HP, 415 kW).		

ALGONQUIN GAS TRANSMISSION HANOVER COMP ST (26239)

Date: 6/20/2023

BOP210001**New Jersey Department of Environmental Protection
Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1	GT-1B	Compressor Turbine Stack	Rectangle	68	29	200		860.0	939.0		95,267.0	102,896.0	Up	
PT2	GT-2B	Compressor Turbine Stack	Rectangle	68	29	200		860.0	939.0		95,267.0	102,896.0	Up	
PT3	V-14	Pipeline Liquids Tank Vent	Round	120	5	250		41.0	73.0		173.0	519.0	Up	
PT5	GT-3B	Compressor Turbine Stack	Round	42	40	250	946.0	679.0	1,000.0	103,708.0	74,509.0	107,244.0	Up	
PT6	EGEN2	Emergency Generator Engine	Round	8	22	180	838.0	804.0	841.0	2,442.0	2,372.0	2,499.0	Up	

ALGONQUIN GAS TRANSMISSION HANOVER COMP ST (26239)
BOP210001

Date: 6/20/2023

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

U 1 TurbinesE1E2 Two Compressor Turbines (Solar, Taurus T-7300), each - 67.84 MMBtu/hr, 7,520 BHP, Natural Gas Fired, Subject to NSPS GG

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	GT-1B	Normal Operations NG GT-1B	Normal - Steady State	E1		PT1								
OS2	GT-2B	Normal Operations NG GT-2B	Normal - Steady State	E2		PT2								
OS3	GT-1B	Startup NG GT-1B	Startup	E1		PT1								
OS4	GT-2B	Startup NG GT-2B	Startup	E2		PT2								
OS5	GT-1B	Shutdown NG GT-1B	Shutdown	E1		PT1								
OS6	GT-2B	Shutdown NG GT-2B	Shutdown	E2		PT2								

U 2 V-14 Pipeline Liquids Storage Tank (2,940 Gallons)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	V-14	Normal Operations (2 turnovers/yr)	Normal - Steady State	E3		PT3								

ALGONQUIN GAS TRANSMISSION HANOVER COMP ST (26239)

Date: 6/20/2023

BOP210001**New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory****U 4 TurbineE5 Compressor Turbine (Solar, Taurus 60-7800), 73.28 MMBtu/hr, 8,412 BHP, Natural Gas Fired, Subject to NSPS KKKK**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	GT-3B	Normal Operations NG GT-3B	Normal - Steady State	E5		PT5	2-02-002-01	0.0	8,760.0		74,509.0	107,244.0	679.0	1,000.0
OS2	Startup	Startup NG GT-3B	Startup	E5		PT5	2-02-002-01	0.0	156.0					
OS3	Shutdown	Shutdown NG GT-3B	Shutdown	E5		PT5	2-02-002-01	0.0	120.0					

U 5 E Generator Emergency Generator (Waukesha VGF24GL), 4.63 MMBtu/hr, 585 BHP, Natural Gas Fired (Model Year: 2008)

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	EGEN 2	Normal Operations	Normal - Steady State	E6		PT6	2-02-002-53	0.0	60.0		2,126.0	2,240.0	804.0	841.0