



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

CATHERINE R. McCABE

Commissioner

SHEILA Y. OLIVER

Lt. Governor

Air Pollution Control Operating Permit Renewal

Permit Activity Number: BOP190001

Program Interest Number: 41741

Mailing Address	Plant Location
Glenn Combs Operations & Maintenance Manager EF KENILWORTH LLC 2000 GALLOPING HILL RD - BLDG K-14 Kenilworth, NJ 07033	EF KENILWORTH LLC 2000 Galloping Hill Rd Kenilworth Union County

Initial Operating Permit Approval Date: January 4, 2001

Operating Permit Approval Date: DRAFT

Operating Permit Expiration Date: January 3, 2026

AUTHORITY AND APPLICABILITY

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

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

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

PERMIT SHIELD

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

ACCESSING PERMITS

The facility's current approved operating permit and any previously issued permits (e.g. superseded, expired, or terminated) are available for download in PDF format at: <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](https://www.state.nj.us/dep/aqpp/applying.html) available at <https://www.state.nj.us/dep/aqpp/applying.html>.

If you have any questions regarding this permit approval, please call Michael Mankbadi at (609)-633-2675.

Approved by:

Art Lehberger

Enclosure

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

Facility Name: EF KENILWORTH LLC
Program Interest Number: 41741
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Section A

Facility Name: EF KENILWORTH LLC

Program Interest Number: 41741

Permit Activity Number: BOP190001

POLLUTANT EMISSIONS SUMMARY

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

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs* (total)	CO ₂ e ²
Emission Units Summary	26.1	171	78.8	0.922	16.8	16.8	16.8	0.000900	0.802	
Batch Process Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Group Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Emissions	26.1	171	78.8	0.922	16.8	16.8	16.8	0.000900	0.802	115,577

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

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs (total)
Insignificant Source Operations	0.110	N/A	N/A	N/A	0.00100	0.00100	0.00100	N/A	N/A
Non-Source Fugitive Emissions ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

VOC: Volatile Organic Compounds

NO_x: Nitrogen Oxides

CO: Carbon Monoxide

SO₂: Sulfur Dioxide

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

TSP: Total Suspended Particulates

Other: Any other air contaminant regulated under the Federal CAA

PM₁₀: Particulates under 10 microns

PM_{2.5}: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO₂e: Carbon Dioxide equivalent

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

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

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

² Total CO₂e emissions for the facility that includes all Significant Source Operations (emission units, batch process, group) and Insignificant Source Operations.

³ Non-Source Fugitive Emissions are defined at N.J.A.C. 7:27-22.1 and are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

Section A

Facility Name: EF KENILWORTH LLC

Program Interest Number: 41741

Permit Activity Number: BOP190001

POLLUTANT EMISSIONS SUMMARY

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations ⁴:

HAP	TPY
Acrolein	0.00700
Arsenic	0.000675
Formaldehyde	0.773
Manganese	0.118
Polynuclear Aromatic Hydrocarbons (PAHs)	0.00475
Benzene	0.0157

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

Other Air Contaminant	TPY
N/A	N/A

⁴ 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: EF KENILWORTH LLC
Program Interest Number: 41741
Permit Activity Number: BOP190001

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)]
3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]
4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]
5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

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

16. Applicable requirements derived from an existing or terminated consent decree with EPA will not be changed without advance consultation by the Department with EPA. N.J.A.C. 7:27-22.3(uu).
17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.
 - a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.
 - b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.
 - c. The permittee cannot use temporary mobile equipment unless the owner or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, prior to bringing the temporary mobile equipment to operate at the major facility.
 - d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved Air Pollution Control Permit when the temporary mobile equipment operates on the property of the permittee.
 - e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of 90 days during any calendar year.
 - f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i)3.
 - g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.
 - h. Where short-term activities (employing temporary mobile equipment) will reoccur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.
18. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.
19. The permittee is responsible for submitting timely and administratively complete operating permit applications:
 - Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
 - Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)];
 - Minor Modifications [N.J.A.C. 7:27-22.23(e)];
 - Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
 - Renewals [N.J.A.C. 7:27-22.30(b)].
20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website <http://www.nj.gov/dep/aqpp/applying.html> (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal

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

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

Section C

Facility Name: EF KENILWORTH LLC

Program Interest Number: 41741

Permit Activity Number: BOP190001

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	---	13b	---
D	FC	---	3
D	FC	---	9

Section D

Facility Name: EF KENILWORTH LLC

Program Interest Number: 41741

Permit Activity Number: BOP190001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

Subject Item and Name **Page Number**

Facility (FC):

FC 1

Insignificant Sources (IS):

IS NJID	IS Description	
IS17	Three Wet Cooling Towers (<= 50 lbs/hr raw materials processed)	6
IS21	190,343 gallon Aboveground Distillate Fuel Oil Storage Tank (<0.02 psia vapor pressure; <=350F operating temperature)	7

Emission Units (U):

U NJID	U Designation	U Description	
U2	Dual Gas Trb	G E Model LM2500-33 Dual Fuel (NG and #2 FO) Stationary Gas Turbine w/ Inlet Air Cooling System - 248.6 MMBtu/hr, Subject to NSPS Subpart A & GG	9

**New Jersey Department of Environmental Protection
Reason for Application**

Permit Being Modified

Permit Class: BOP **Number:** 140002

**Description
of Modifications:**

Five Year Operating Permit Renewal including the following changes:

Reduced backup distillate fuel oil usage for the U2 Turbine from 1,200 to 500 hours per any consecutive 12-month period, and removed the associated requirement to install a COM if distillate fuel oil operation exceeds 500 hours in a calendar year. In addition, removed the requirement of annual stack emission testing for TSP and PM-10 if distillate fuel oil operation exceeds 500 hours per year. Annual emissions limits were updated accordingly: NOx emissions were reduced from 187 tons/year to 171 tons/year; TSP and PM-10 emissions were reduced from 18.8 tons/year to 16.8 tons/year; SO2 emissions were reduced from 31.2 tons/year to 0.922 tons/year; VOC emissions were reduced from 27.6 tons/year to 26.1 tons/year

Added an emergency operating scenario for Turbine U2:OS9 which allows fuel oil operation in accordance with N.J.A.C. 7:27-19.25 "Exemption for emergency use of fuel oil".

Corrected HAPs and Pb emissions rates for U2:OS1 based on AP-42 emissions factors for fuel oil (emissions rates were previously based on natural gas emissions factors). Annual emissions rates were updated accordingly: Pb emissions were reduced from 0.00210 tons/year to 0.0009 tons/year; HAPs emissions were reduced from 0.930 tons/year to 0.912 tons/year; Arsenic were reduced from 0.000700 tons/year to 0.000675 tons/year; Manganese emissions were reduced from 0.173 tons/year to 0.00 tons/year; Polycyclic Organic Matter emissions were reduced from 0.008 tons/year to 0.00475 tons/year; Benzene was added at 0.0157 tons/year to incorporate new AP-42 emissions factors for both natural gas and fuel oil.

Hourly PTE emissions limits were added to the startup, shutdown and transfer operations within U2 (OS3-8); no changes were made to annual tons/year as a result.

Included PM-2.5 PTE emission limits for U2 in accordance with N.J.A.C. 7:27-22.

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

Subject Item: FC

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

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

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

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

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

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	<p>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)]</p>	None.	<p>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)].</p>	<p>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.</p> <p>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.</p> <p>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]</p>
14	<p>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]</p>	None.	None.	<p>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)]</p>
15	<p>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]</p>	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]

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

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

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

Subject Item: IS17 Three Wet Cooling Towers (<= 50 lbs/hr raw materials processed)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	Water treatment chemicals containing hexavalent chromium shall not be added to the cooling tower circulating water. [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: IS21 190,343 gallon Aboveground Distillate Fuel Oil Storage Tank (<0.02 psia vapor pressure; <=350F operating temperature)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(a)]	None.	None.	None.
3	Operating Temperature <= 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	Vapor Pressure < 0.02 psia. The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank or vessel shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank or vessel shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank or vessel shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The tank's or vessel's potential to emit each TXS and each HAP shall not exceed the reporting thresholds at N.J.A.C. 7:27-17.9(a). [N.J.A.C. 7:27-22.1]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	HAPs (Total) < 1 weight % The percentage by weight of all HAPs collectively in the raw material stored in the tank, or mixed or blended in the vessel, shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7-27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank or vessel meets the above applicable requirements and (3) attests that the tank or vessel is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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

Emission Unit: U2 G E Model LM2500-33 Dual Fuel (NG and #2 FO) Stationary Gas Turbine w/ Inlet Air Cooling System - 248.6 MMBtu/hr, Subject to NSPS Subpart A & GG
Subject Item: CD2 Catalytic Oxidizer to Reduce CO Emissions

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The oxidation catalyst shall be operating at all times that the combustion turbine is operating. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Design Control Efficiency >= 90 % destruction efficiency of CO. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain manufacturer's specifications showing design control efficiency.[N.J.A.C. 7:27-22.16(o)].	None.
3	Temperature >= 980 and Temperature <= 1,200 degrees F. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 G E Model LM2500-33 Dual Fuel (NG and #2 FO) Stationary Gas Turbine w/ Inlet Air Cooling System - 248.6 MMBtu/hr, Subject to NSPS Subpart A & GG

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of applicable federal requirements: 40 CFR 60 Subpart A 40 CFR 60 Subpart GG [None]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	<p>STACK TESTING SUMMARY: The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for CO, NOx, VOC, TSP and PM-10 as specified in the compliance plan for U2:OS1, and for CO and NOx as specified in the compliance plan for U2:OS2.</p> <p>The permittee shall provide Emission Measurement Section (EMS) with the turbine load performance curve with the protocol.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with EMS approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above.</p> <p>The CEMS shall include continuous monitoring of all necessary parameters (e.g., oxygen, moisture, temperature, flow rate) to allow the required corrections to be applied to demonstrate compliance with the emission limits. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]</p>

**New Jersey Department of Environmental Protection
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>CEMS/COMS REQUIREMENTS SUMMARY</p> <p>The Permittee shall operate CEMS according to the approved certification and in compliance with daily, quarterly, and annual quality assurance requirements. The CEMS shall include continuous monitoring of all necessary parameters (e.g. oxygen, moisture, temperature, flow rate) to allow the required corrections to be applied to demonstrate compliance with the emission limits.</p> <p>The Permittee shall request approval from the Department's Emission Measurement Section (EMS) to allow continued use of the existing CEMS when a change to the units of measurement is made to a permit limit. [N.J.A.C. 7:27-22.16(a)]</p>	None.	Other: Maintain readily accessible records of the Permittee's written request to EMS, and the response from EMS . [N.J.A.C. 7:27-22.16(o)].	Comply with the requirement: Upon occurrence of event submit a written request to the EMS within 30 days from the date of the approved operating permit to determine whether a full CEMS recertification is required, whether the change can follow the procedures for data recording and storage equipment upgrades found in the Department's Technical Manual 1005 Section IV.B.3(f), or if continued use of the existing CEMS is allowed. [N.J.A.C. 7:27-22]
4	The owner or operator shall develop a QA/QC plan for each CEMS/COMS required by this permit prepared in accordance with the NJDEP Technical Manual 1005 posted on the AQPP webpage at http://www.state.nj.us/dep/aqpp . [N.J.A.C. 7:27-22.16(a)]	Other: The QA/QC coordinator shall be responsible for reviewing the QA/QC plan on an annual basis. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible records of the QA/QC plan including QA data and quarterly reports. [N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<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 ensure that the adjustment of the combustion process is carried out according to the manufacturer's recommended procedures and maintenance schedules as set forth at N.J.A.C. 7:27-19.16(g). [N.J.A.C 7:27-22.16(a)], [N.J.A.C. 7:27-16.9(f)] and [N.J.A.C. 7:27-19.5(e)]</p>	<p>Other: Monitored by continuous emission monitoring (CEMS) or by periodic emission monitoring upon performing combustion adjustment. If not using a certified CEMS, monitoring shall be performed in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005. [N.J.A.C. 7:27-19.16(g)].</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage upon performing combustion adjustment or by manual logging of parameter or storing data in a computer data system. The permittee shall record the following information for each adjustment in a log book or computer data system: 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. The records shall be kept for a minimum of 5 years and be readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(h)]</p>	<p>None.</p>
6	<p>The turbine shall operate at greater than 60 percent load during operation burning natural gas, and greater than 80% load during operation burning number two fuel oil to prevent emissions from being trapped in the building cavity. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Monitored by fuel flow/firing rate instrument continuously. The monitor shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>
7	<p>VOC (Total) <= 50 ppmvd @ 15% O₂. [N.J.A.C. 7:27-16.9(c)]</p>	<p>VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-16.9(g)] & [N.J.A.C. 7:27-16.22(f)] & [N.J.A.C. 7:27-16.23(a)2]</p>	<p>VOC (Total): Recordkeeping by stack test results upon occurrence of event (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	CO <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, based on one calendar day. [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
9	CO <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. In accordance with N.J.A.C. 7:27-19.15(a)2, any NOx testing conducted pursuant to this section shall be conducted concurrently with CO testing. The applicable NOx emission limits in N.J.A.C. 7:27-19 will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the CO limit in N.J.A.C. 7:27-16.9 or the permit limit for CO, whichever is more stringent, is also met (see stack testing requirements in OS Summary). [N.J.A.C. 7:27:19.15(a)2] and. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
10	CO <= 35 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Particulate Emissions <= 24.8 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	Particulate Emissions: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-16.o]	Particulate Emissions: Recordkeeping by stack test results upon occurrence of event (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
12	Maximum Gross Heat Input <= 248.6 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.
13	Dual fuel stationary gas turbine limited to natural gas or #2 fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Natural Gas Usage <= 2,180 MMft ³ per any consecutive 365 day period. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. The monitor shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Fuel use for any 365 consecutive days is computed by adding the fuel consumed on a given day to that consumed in the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.
15	Fuel Oil Usage <= 0.882 MMgals per any consecutive 365 day period. [N.J.A.C. 7:27-22.16(a)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Fuel Oil Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Fuel use for any 365 consecutive days is computed by adding the fuel consumed on a given day to that consumed in the preceding 364 days. Records of cumulative fuel consumption and fuel flow rate of #2 fuel oil to turbine shall be maintained. [N.J.A.C. 7:27-22.16(o)]	None.
16	Hours of Operation While Firing Fuel Oil <= 500 hr/yr except event of an emergency as defined in N.J.A.C. 7:27-19.25(c). [N.J.A.C. 7:27-22.16(a)]	Hours of Operation While Firing Fuel Oil: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation While Firing Fuel Oil: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. In the event of an emergency, the facility shall maintain emergency documentation defined in N.J.A.C. 7:27-19.25(d). [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	VOC (Total) <= 26.1 tons/yr based on 8760 hours per year operation including startup, shutdown and fuel transfer operations (500 hours/year of fuel oil operation, 8260 hours/year of natural gas operation). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation. Annual emissions shall be calculated using the following formula: Tons per year VOC = [(Total mmscf of natural gas burned in calendar year x "Y" BTU/scf x 0.023 lbs VOC/MM BTU) + (Total mmgal #2 fuel oil burned in a 12-month period x Heating Value of #2 fuel oil by fuel supplier BTU/gal x 0.041 lbs VOC/MM BTU)] x ton/2000 lbs, where Y = Heating Value of natural gas provided monthly by the supplier. lbs of VOC/MMBtu value may be changed based on value obtained from stack test data. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and for every consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.
18	NOx (Total) <= 171 tons/yr based on 8760 hours per year operation including startup, shutdown and fuel transfer operations (500 hours/year of fuel oil operation, 8260 hours/year of natural gas operation). [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously or by calculations, monthly. Annual emissions shall be calculated using the following formula: Tons per year NOx = [(Total mmscf of natural gas burned in calendar year x "Y" BTU/scf x 0.15 lbs NOx/MM BTU) + (Total mmgal #2 fuel oil burned in a 12-month period x Heating Value of #2 fuel oil by fuel supplier BTU/gal x 0.35 lbs NOx/MM BTU)] x ton/2000 lbs, where Y = Heating Value of natural gas provided monthly by the supplier. lbs of NOx/MMBtu value may be changed based on value obtained from stack test data. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and for every consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	CO <= 78.9 tons/yr based on 8760 hours per year operation including startup, shutdown and fuel transfer operations (500 hours/year of fuel oil operation, 8260 hours/year of natural gas operation). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by continuous emission monitoring system continuously or by calculations, monthly. Annual emissions shall be calculated using the following formula: Tons per year NO _x = [(Total mmscf of natural gas burned in calendar year x "Y" BTU/scf x 0.07 lbs CO/MM BTU) + (Total mmgal #2 fuel oil burned in a 12-month period x Heating Value of #2 fuel oil by fuel supplier BTU/gal x 0.07 lbs CO/MM BTU)] x ton/2000 lbs, where Y = Heating Value of natural gas provided monthly by the supplier. lbs of CO/MMBtu value may be changed based on value obtained from stack test data. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and for every consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]
20	SO ₂ <= 0.922 tons/yr based on 8760 hours per year operation including startup, shutdown and fuel transfer operations (500 hours/year of fuel oil operation, 8260 hours/year of natural gas operation). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	TSP <= 16.8 tons/yr based on 8760 hours per year operation including startup, shutdown and fuel transfer operations (500 hours/year of fuel oil operation, 8260 hours/year of natural gas operation). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	PM-10 (Total) <= 16.8 tons/yr based on 8760 hours per year operation including startup, shutdown and fuel transfer operations (500 hours/year of fuel oil operation, 8260 hours/year of natural gas operation). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	PM-2.5 (Total) <= 16.8 tons/yr based on emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	HAPs (Total) <= 0.802 tons/yr based on 8760 hours per year operation including startup, shutdown and fuel transfer operations (500 hours/year of fuel oil operation, 8260 hours/year of natural gas operation). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Pb <= 0.0009 tons/yr based on 8760 hours per year operation including startup, shutdown and fuel transfer operations (500 hours/year of fuel oil operation, 8260 hours/year of natural gas operation). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Acrolein <= 0.007 tons/yr based on 8760 hours per year of natural gas operation including startup shutdown and fuel transfer operations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	Arsenic Emissions <= 0.000675 tons/yr based on 500 hours/year of fuel oil operation including startup, shutdown and fuel transfer operations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	Formaldehyde <= 0.773 tons/yr based on 8760 hours per year of natural gas operation including startup shutdown and fuel transfer operations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
29	Benzene <= 0.0157 tons/yr based on 8760 hours per year operation including startup, shutdown and fuel transfer operations (500 hours/year of fuel oil operation, 8260 hours/year of natural gas operation). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	Polynuclear aromatic hydrocarbons (PAHs) <= 0.00475 tons/yr based on 8760 hours per year operation including startup, shutdown and fuel transfer operations (500 hours/year of fuel oil operation, 8260 hours/year of natural gas operation). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
31	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
32	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
33	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]

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

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

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

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

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. [40 CFR 60.12]	None.	None.	None.
39	The owner or operator shall perform zero and span adjustments at least once each operating day for continuous emission monitors and continuous opacity monitors following procedures outlined in 40 CFR Part 60.13(d)1 & 2. [40 CFR 60.13(d)]	None.	Other: Maintain records in accordance with 40 CFR 60.7(f). [40 CFR 60.13(d)].	None.
40	Except for system breakdowns, repairs, calibration checks, and zero and span adjustments, all continuous opacity monitoring systems referenced by 40 CFR 60.13(c) shall be in continuous operation. They shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. [40 CFR 60.13(e)(1)]	Other: See Applicable Requirement. [40 CFR 60.13(e)(1)].	Other: See Applicable Requirement. [40 CFR 60.13(e)(1)].	None.
41	Upon modifications, emission rates for an affected facility shall be expressed as kg/hr of any pollutant discharged into the atmosphere for which a standard applies. [40 CFR 60.14(b)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
42	The owner or operator shall notify the Administrator of the proposed replacement of components, upon triggering reconstruction as defined at 40 CFR 60.15. [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
43	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. [40 CFR 60.19]	None.	None.	None.
44	NOx (Total) <= 75 ppmvd @ 15% O2. [40 CFR 60.332(a)(1)]	NOx (Total): Monitored by stack emission testing once initially, based on each of three Department validated stack test runs. Test methods and procedures shall be consistent with the requirements of 40 CFR Part 60.335. If the turbine combusts both oil and gas as primary or backup fuels, separate performance testing is required for each fuel. Performance testing is not required for any emergency fuel as defined in 40 CFR 60.331. [40 CFR 60.335]	None.	None.
45	Sulfur Content in Fuel <= 0.8 % by weight. No owner or operator subject to the provisions of this subpart shall burn any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). [40 CFR 60.333(b)]	Other: Test methods and procedures shall be consistent with the requirements of 40 CFR Part 60.334(h) and 60.335. A minimum of three fuel samples shall be collected during the performance test. [40 CFR 60.335].	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
46	<p>The owner or operator may, as alternative to operating the continuous monitoring system described in 40 CFR 60.334(a), install, certify, maintain operate, and quality-assure a continuous monitoring system (CEMS) consisting of NOx and O2 monitors. As an alternative, a CO2 monitor may be used to adjust the measured NOx concentrations. Each CEMS must be installed and certified according to PS 2 and 3 of 40 CFR Part 60 Appendix B. If the owner or operator has installed a NOx CEMS to meet the requirements 40 CFR Part 75 and is continuing to meet the ongoing requirements of 40 CFR Part 75, the CEMS may be used to meet the requirements of this section. If CEMS in conformance with 40 CFR Part 75 is used, periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance report. [40 CFR 60.334(b)]</p>	<p>Monitored by continuous emission monitoring system continuously. [40 CFR 60.334]</p>	<p>None.</p>	<p>None.</p>
47	<p>The owner or operator shall monitor the total sulfur content of the fuel being fired in the turbine if the fuel fired in the turbine does not meet the definition of natural gas as provided in 40 CFR 60.331(u). The owner or operator shall use the methods specified in 40 CFR 60.335(b)10. The analyses may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency. [40 CFR 60.334(h)(1)]</p>	<p>Monitored by grab sampling at the approved frequency. Sulfur content values shall be determined on each occasion that fuel is transferred to the storage tank from any other source. If a custom fuel monitoring schedule has previously been approved, the owner or operator may continue monitoring on this schedule without submitting a special petition to the Administrator. [40 CFR 60.334(i)]</p>	<p>Recordkeeping by certified lab analysis results at the approved frequency. The owner or operator shall record the results of each analysis for fuel sulfur content. [40 CFR 60.334(i)]</p>	<p>None.</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
48	The owner or operator shall monitor nitrogen content of the fuel being fired in the turbine if the owner or operator claims an allowance for fuel bound nitrogen. The owner or operator shall use the methods specified in 40 CFR 60.335(b)9 or an approved alternative. The analyses may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency. [40 CFR 60.334(h)(2)]	Monitored by other method (provide description) daily. Any applicable nitrogen content value of the gaseous fuel or fuel oil shall be determined and recorded once per unit operating day. If a custom fuel monitoring schedule has previously been approved, the owner or operator may continue monitoring on this schedule without submitting a special petition to the Administrator. [40 CFR 60.334(i)]	Recordkeeping by certified lab analysis results daily. The owner or operator shall record the results of each analysis for fuel nitrogen content. [40 CFR 60.334(i)]	None.
49	The owner or operator may elect not to monitor nitrogen content of the fuel being fired in the turbine if the owner or operator does not claim an allowance for fuel bound nitrogen. [40 CFR 60.334(h)(2)]	None.	None.	Demonstrate compliance: Once initially. The owner or operator does not claim an allowance for fuel bound nitrogen. The allowable NOx emission concentration included in this permit was calculated in accordance with 40 CFR 60.332(a). In calculations, NOx emission allowance (F-value) of zero was accepted. [40 CFR 60.334(h)(2)]
50	The owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u) regardless of whether an existing custom schedule approved by the Administrator. [40 CFR 60.334(h)(3)]	None.	None.	Demonstrate compliance: Once initially. The owner or operator shall submit the required determination to the Administrator using the sources of information described in 40 CFR 60.334(h)(3)(i) or (ii) showing the maximum total sulfur content. [40 CFR 60.334(h)(3)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
51	<p>The owner or operator shall submit reports of excess emissions and monitor downtime for Nitrogen oxides. Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined in 40 CFR 60.334(j)(1)(i) or (iii) as follows: (i) for turbines using water or steam to fuel ratio monitoring - any unit operating hour for which the average steam or water to fuel ratio, as measured by the continuous monitoring system, falls below the acceptable steam or water to fuel ratio determined by the performance test (40 CFR 60.8) to demonstrate compliance with the NOx concentration limit specified in 60.332; Any unit operating hour in which no water or steam is injected shall also be considered an excess emissions; or (iii) for turbines using NOx and diluent CEMS - any unit operating hour during which the 4-hour rolling average NOx concentration exceeds the applicable NOx emission limit specified in 60.332. [40 CFR 60.334(j)(1)]</p>	None.	None.	<p>Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. Each report shall include the average steam or water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, as applicable and, (if applicable) the nitrogen content of the fuel during each excess emission. Pursuant to 40 CFR 60.334(j)5, all reports shall be postmarked by the 30th day following the end of each 6-month period. [40 CFR 60.334(j)(1)]</p>
52	<p>The owner or operator shall submit reports of excess emissions and monitor downtime for Sulfur dioxide. Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined in 40 CFR 60.334(j)(2). [40 CFR 60.334(j)(2)]</p>	None.	None.	<p>Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. Pursuant to 40 CFR 60.334(j)5, all reports shall be postmarked by the 30th day following the end of each 6-month period. [40 CFR 60.334(j)(2)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
53	The owner or operator shall report to the Administrator quarterly each period during which an exemption provided in 40 CFR Part 60.332(f) is in effect. [40 CFR 60.334(j)(3)]	None.	None.	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every quarter beginning on the 30th of the 3rd month following initial performance tests. The report shall contain for each period, the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. All reports shall be postmarked by the 30th day following the end of each calendar quarter. [40 CFR 60.334(j)(3)]
54	The owner or operator shall include in the report required by 40 CFR Part 60.7(c), each period during which an exemption provided in 40 CFR Part 60.332(k) is in effect. [40 CFR 60.334(j)(4)]	None.	None.	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall contain for each period, the type, reasons, and duration of the firing of the emergency fuel. Pursuant to 40 CFR 60.334(j)5, all reports shall be postmarked by the 30th day following the end of each 6-month period. [40 CFR 60.334(j)(4)]

BOP190001

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

Emission Unit: U2 G E Model LM2500-33 Dual Fuel (NG and #2 FO) Stationary Gas Turbine w/ Inlet Air Cooling System - 248.6 MMBtu/hr, Subject to NSPS Subpart A & GG

Operating Scenario: OS1 Normal conditions, #2 Fuel Oil, Catalytic Oxidizer to minimize CO emissions

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	Other: Periodic Visual Observations. Once every 100 hours of oil firing operation. A certified smoke reader shall conduct visual observations once every 100 hours of oil firing operation using NJ Test Method 2. Monitoring and recordkeeping may occur at a lesser frequency if circumstances prohibit conducting a visual determination (e.g., nighttime operation, weather conditions, unplanned dispatching, etc.) within the 100-hour timeframe. However, in no case shall the interval between visual determinations exceed 125 hours of oil firing operation. If the visual observation occurs at a lesser frequency than every 100 hours of oil firing operation, the reason for monitoring at the lesser frequency shall also be recorded. [N.J.A.C. 7:27-22.16(o)].	Other: Manual logging of visual observations in a logbook once every 100 hours of oil firing operation. The permittee shall record the date and time when visible emissions are observed during operation under the operating conditions specified in this section. All records shall be kept on-site for at least five (5) years, and readily made available to the Department upon request. Monitoring and recordkeeping may occur at a lesser frequency if circumstances prohibit conducting a visual determination (e.g., nighttime operation, weather conditions, unplanned dispatching, etc.) within 100-hr timeframe. However, in no case shall the interval between visual determinations exceed 125 hours of oil firing operation. If the visual observation occurs at a lesser frequency than every 100 hours of oil firing operation, the reason for monitoring at the lesser frequency shall also be recorded.[N.J.A.C. 7:27-22.16(o)].	None.
2	NOx (Total) <= 2 lb/MW-hr. [N.J.A.C. 7:27-19.5(d)2]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-19.15(a)2]	NOx (Total): Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
5	VOC (Total) <= 0.041 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
6	VOC (Total) <= 10 lb/hr. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
7	NOx (Total) <= 0.35 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): 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 starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	NOx (Total) <= 84.2 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): 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 starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]
9	NOx (Total) <= 84.2 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
10	CO <= 35 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): 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 starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	CO <= 35 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
12	CO <= 0.07 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): 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 starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]
13	CO <= 0.07 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	CO <= 18 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): 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 starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]
15	CO <= 18 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
16	SO2 <= 0.00154 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
17	SO2 <= 0.382 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
18	TSP <= 0.037 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	TSP: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
19	TSP <= 9.1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	TSP: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	PM-10 (Total) \leq 0.037 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
21	PM-10 (Total) \leq 9.1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
22	PM-2.5 (Total) \leq 9.1 lb/hr based on PM-10 emissions limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Pb \leq 0.00347 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	Arsenic Emissions \leq 0.0027 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Formaldehyde \leq 0.0696 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Benzene \leq 0.0137 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	Polynuclear aromatic hydrocarbons (PAHs) \leq 0.0099 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 G E Model LM2500-33 Dual Fuel (NG and #2 FO) Stationary Gas Turbine w/ Inlet Air Cooling System - 248.6 MMBtu/hr, Subject to NSPS Subpart A & GG

Operating Scenario: OS2 Normal conditions, Natural Gas, Catalytic Oxidizer to minimize CO emissions

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 10 % exclusive of visible condensed water vapor, except for a maximum of three minutes out of any 30 minute period. [N.J.A.C. 7:27-22.35]	None.	None.	None.
2	Opacity <= 20 % exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	NOx (Total) <= 1.3 lb/MW-hr. [N.J.A.C. 7:27-19.5(d)2]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-19.15(a)2]	NOx (Total): Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
4	VOC (Total) <= 0.023 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	VOC (Total) <= 5.7 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	NOx (Total) <= 0.15 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): 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 starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	NOx (Total) <= 0.15 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	NOx (Total) <= 36.1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): 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 starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]
9	NOx (Total) <= 36.1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO <= 35 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously. The monitor shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): 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 starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]
11	CO <= 35 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
12	CO <= 0.07 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): 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 starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	CO <= 0.07 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
14	CO <= 18 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): 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 starting with the quarter in which the Performance Specification Test was conducted, for review and approval. Quarterly EEMPR reports shall include all quarterly and annual QA data. This report shall be submitted whether or not an emission exceedance has occurred. See CEMS and QA/QC requirements in OS Summary. [N.J.A.C. 7:27-22.19(d)]
15	CO <= 18 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack test requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
16	SO2 <= 0.0008 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
17	SO2 <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
18	TSP <= 0.014 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
19	TSP <= 3.52 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
20	PM-10 (Total) <= 0.014 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
21	PM-10 (Total) <= 3.52 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	PM-2.5 (Total) <= 3.52 lb/hr based on PM-10 emissions limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Acrolein <= 0.0016 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	Formaldehyde <= 0.176 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Benzene <= 0.00298 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Polynuclear aromatic hydrocarbons (PAHs) <= 0.000547 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 G E Model LM2500-33 Dual Fuel (NG and #2 FO) Stationary Gas Turbine w/ Inlet Air Cooling System - 248.6 MMBtu/hr, Subject to NSPS Subpart A & GG

Operating Scenario: OS3 Start-up conditions for #2 Fuel Oil, OS4 Shutdown conditions for #2 Fuel Oil, OS5 Transfer process between liquid and gas fuels

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	NOx (Total) <= 2 lb/MW-hr for NON-HEDD & NON-UTILITY Combined Cycle Turbine for fuel oil, per Table 6. [N.J.A.C. 7:27-19.5(d)2]	None.	None.	None.
3	Start-up Period <= 120 minutes. Start-up is defined as that period of time from initiation of gas turbine operation until the unit reaches steady state at 80-100% load conditions. [N.J.A.C. 7:27-22.16(e)]	Start-up Period: Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Start-up Period: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
4	Shutdown Period <= 120 minutes. Shutdown is defined as that period of time from the initial lowering of turbine output below 80% of the base load to the cessation of turbine operation. [N.J.A.C. 7:27-22.16(e)]	Shutdown Period: Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Shutdown Period: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel Transfer Period <= 30 minutes. Transfer period shall be defined as that period of time from the initiation of the transfer process between liquid and gas fuels, including temporary reduction in water injection, to the completion of this process. [N.J.A.C. 7:27-22.16(e)]	Fuel Transfer Period: Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Fuel Transfer Period: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
6	CO <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
7	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
8	VOC (Total) <= 22 lb/hr . [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 385 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO <= 22 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 G E Model LM2500-33 Dual Fuel (NG and #2 FO) Stationary Gas Turbine w/ Inlet Air Cooling System - 248.6 MMBtu/hr, Subject to NSPS Subpart A & GG

Operating Scenario: OS6 Start-up conditions for Natural Gas, OS7 Shutdown conditions for Natural Gas, OS8 Transfer process between gas and liquid fuels

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	NOx (Total) <= 1.3 lb/MW-hr for NON-HEDD & NON-UTILITY Combined Cycle Turbine for natural gas, per Table 6. [N.J.A.C. 7:27-19.5(d)2]	None.	None.	None.
3	Start-up Period <= 120 minutes. Start-up is defined as that period of time from the initiation of gas turbine operation until the unit reaches steady state at 60-100% load conditions. [N.J.A.C. 7:27-22.16(e)]	Start-up Period: Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Start-up Period: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
4	Shutdown Period <= 120 minutes. Shutdown shall be defined as that period of time from the initial lowering of turbine output below 60% of the base load to the cessation of turbine operation. [N.J.A.C. 7:27-22.16(e)]	Shutdown Period: Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Shutdown Period: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
5	CO <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
6	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
7	NOx (Total) <= 231 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 50 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 8.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 8.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) <= 8.5 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): EF KENILWORTH LLC

Facility ID (AIMS): 41741

Street 2000 GALLOPING HILL RD
Address: KENILWORTH, NJ 07033

State Plane Coordinates:	
X-Coordinate:	555,081
Y-Coordinate:	672,500
Units:	Feet
Datum:	NAD83
Source Org.:	DEP-GIS
Source Type:	DEP Program Database

Mailing 2000 GALLOPING HILL RD BLDG K-14
Address: KENILWORTH, NJ 07033

County: Union

Location Cogeneration: Production of electrical and
Description: thermal energy to sell to the Merck Sharpe &
Dohme Corp. with excess energy sold to GPU
Energy.

Industry:	
Primary SIC:	4931
Secondary SIC:	
NAICS:	221112

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: EF Kenilworth LLC

Org. Type: Corporation

Name: Glenn Combs

NJ EIN: 33014258900

Title: O&M Manager

Phone: (908) 245-7734 x0013

Mailing Address: 2000 Galloping Hill Road

Fax: (908) 298-0105 x

Building K-14

Other: () - x

Kenilworth, NJ 07033

Type:

Email: gcombs@atlanticpower.com

Contact Type: BOP - Operating Permits

Organization: EF Kenilworth LLC

Org. Type: Corporation

Name: Glenn Combs

NJ EIN: 33014258900

Title: O&M Manager

Phone: (908) 245-7734 x0013

Mailing Address: 2000 Galloping Hill Road

Fax: (908) 298-0105 x

Building K-14

Other: () - x

Kenilworth, NJ 07033

Type:

Email: gcombs@atlanticpower.com

Contact Type: Delegated Authority

Organization: Atlantic Power

Org. Type: Corporation

Name: Monica Howell

NJ EIN: 33034256200

Title: Manager, Environmental Compliance

Phone: (609) 221-2859 x

Mailing Address: 3250 Lacey Road

Fax: () - x

Ste 500

Other: (609) 221-2859 x

Downer's Grove, IL 60515

Type:

Email: mhowell@atlanticpower.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Emission Statements

Organization: EF Kenilworth LLC

Org. Type: Corporation

Name: Glenn Combs

NJ EIN: 33014258900

Title: O&M Manager

Phone: (908) 245-7734 x

Mailing Address: 2000 Galloping Hill Road
Building K-14
Kenilworth, NJ 07033

Fax: (908) 298-0105 x

Other: () - x

Type:

Email: gcombs@atlanticpower.com

Contact Type: Fees/Billing Contact

Organization: EF Kenilworth LLC

Org. Type: Corporation

Name: KAREN ALTMAN

NJ EIN: 33014258900

Title: Office Administrator

Phone: (908) 245-7734 x

Mailing Address: 2000 Galloping Hill Road
Building K-14
Kenilworth, NJ 07033

Fax: (908) 298-0105 x

Other: () - x

Type:

Email: kaltman@atlanticpower.com

Contact Type: General Contact

Organization: EF Kenilworth

Org. Type: LLC

Name: Glenn Combs

NJ EIN:

Title: Operations and Maintenance Manager

Phone: (908) 245-7734 x

Mailing Address: 2000 Galloping Hill Road
Building K-14
Kenilworth, NJ 07033

Fax: () - x

Other: () - x

Type:

Email: gcombs@atlanticpower.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: On-Site Manager

Organization: EF Kenilworth LLC

Org. Type: Corporation

Name: Albert W. Bergeron, Jr.

NJ EIN: 33014258900

Title: Plant Manager

Phone: (908) 245-7734 x0011

Mailing Address: 2000 Galloping Hill Road
Building K-14
Kenilworth, NJ 07033

Fax: (908) 298-0105 x

Other: () - x

Type:

Email: cbergeron@atlanticpower.com

Contact Type: Operator

Organization: EF Kenilworth LLC

Org. Type: Corporation

Name: Glenn Combs

NJ EIN: 33014258900

Title: O&M Manager

Phone: (908) 245-7734 x

Mailing Address: 2000 Galloping Hill Road
Building K-14
Kenilworth, NJ 07033

Fax: (908) 298-0105 x

Other: () - x

Type:

Email: gcombs@atlanticpower.com

Contact Type: Owner (Current Primary)

Organization: Atlantic Power Corporation

Org. Type: Corporation

Name:

NJ EIN: 33034256200

Title:

Phone: () - x

Mailing Address: 2000 Galloping Hill Road
Building K-14
Kenilworth, NJ 07033

Fax: () - x

Other: () - x

Type:

Email:

EF KENILWORTH LLC (41741)
BOP190001

Date: 12/10/2021

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Responsible Official

Organization: EF Kenilworth LLC

Name: Glenn Combs

Title: O&M Manager

Phone: (908) 245-7734 x0013

Fax: (908) 298-0105 x

Other: () - x

Type:

Email: gcombs@atlanticpower.com

Org. Type: Corporation

NJ EIN: 33014258900

Mailing Address: 2000 Galloping Hill Road
Building K-14
Kenilworth, NJ 07033

New Jersey Department of Environmental Protection
Non-Source Fugitive Emissions

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG1	Natural Gas System-Valves (25)	Facility Wide	0.120	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG2	Natural Gas System-Flanges (85)	Facility Wide	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG3	Natural Gas System-Comp. Seals (1)	Facility Wide	0.860	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG4	#2 Fuel Oil-Valves (10)	Facility Wide	0.160	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG5	#2 Fuel Oil-Flanges (25)	Facility Wide	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG6	#2 Fuel Oil-Pump Seals (3)	Facility Wide	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG7	Steam Turbine Lube Oil-Valves (10)	Facility Wide	0.160	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG8	Steam Turbine Lube Oil-Flanges (50)	Facility Wide	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG9	Steam Turbine Lube Oil-Pump Seals (3)	Facility Wide	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG10	Gas Comp Lube Oil-Valves (7)	Facility Wide	0.120	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG11	Gas Comp Lube Oil-Flanges (20)	Facility Wide	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG12	Gas Comp Lube Oil-Pump Seals (1)	Facility Wide	0.120	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG13	Gas Turbine Lube Oil-Valves (15)	Facility Wide	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
 Non-Source Fugitive Emissions

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG14	Gas Turbine Lube Oil-Flanges (25)	Facility Wide	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG15	Gas Turbine Lube Oil-Pump Seals (3)	Facility Wide	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG16	Gas Turbine Hydraulic Valves (6)	Facility Wide	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG17	Gas Turbine Hydraulic Flanges (25)	Facility Wide	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG18	Gas Turbine Hydraulic Pump Seals (2)	Facility Wide	0.230	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
Total			3.290	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	1000 gallon Steam Turbine Lube Oil Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS2	150 gallon Gas Turbine Syn. Lube Oil Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS3	440 gallon Lube Oil Storage Area (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS4	360 gallon Waste Oil Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS5	300 gallon Inhibitor Solution Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS6	500 gallon Sulfuric Acid Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS7	215 gallon Gas Turbine Lube Oil Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS8	165 gallon #3255 Phosphate Polymer Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS9	165 gallon Sodium Bisulfite Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000
IS10	110 gallon Sodium Bisulfite Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000
IS11	110 gallon #573 Flocculant Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000
IS12	110 gallon #363 Amine Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000
IS13	110 gallon #366 Amine Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000
IS14	85 gallon Gas Compressor Lube Oil Storage Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000
IS15	75 gallon Waste Tank for synthetic oil/water (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000
IS16	30 gallon Bromide Tank (<2000 gal)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000

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)
IS17	Three Wet Cooling Towers (<= 50 lbs/hr raw materials processed)	Other Equipment	Main Bldg.	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.00000000	
IS19	Steam Turbine Vapor Extractor (<= 50 lbs/hr raw materials processed)	Other Equipment	Main Bldg.	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS20	Turbine Compartment Exhaust Fan Vent (<= 50 lbs/hr raw materials processed)	Other Equipment	Main Bldg.	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS21	190,343 gallon Aboveground Distillate Fuel Oil Storage Tank (<0.02 psia vapor pressure; <=350F operating temperature)	Storage Vessel	Main Bldg.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
Total				0.110	0.000	0.000	0.000	0.001	0.001	0.000	0.00000000	0.000

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

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E2	Turbine Stk	Dual Fuel Stationary Gas Turbine-General Electric Model LM-2500-33	Combustion Turbine	080729 01942356	1/1/1988	No	4/21/1995	

41741 EF KENILWORTH LLC BOP190001 E2 (Combustion Turbine)
Print Date: 10/24/2019

Make:	<input type="text" value="LM-2500-33"/>	
Manufacturer:	<input type="text" value="General Electric"/>	
Model:	<input type="text" value="PE-MDW"/>	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="248.60"/>	
Type of Turbine:	<input type="text" value="Aero-Derivative"/>	
Type of Cycle:	<input type="text" value="Combined-Cycle"/>	Description: <input type="text"/>
Industrial Application:	<input type="text" value="Electrical Generator"/>	Description: <input type="text"/>
Power Output:	<input type="text" value="25.00"/>	Units: <input type="text" value="Megawatts"/>
Is the combustion turbine using (check all that apply):		
A Dry Low NOx Combustor:	<input type="checkbox"/>	
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio: <input type="text"/>
Water Injection:	<input checked="" type="checkbox"/>	Water to Fuel Ratio: <input type="text" value="1.20"/>
Other:	<input checked="" type="checkbox"/>	Description: <input type="text" value="CO Catalytic Oxy"/>
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:	<input type="text" value="CO Catalytic Oxydizer: Camet Carbon Monoxide Converter System
CEMS for NOx and CO
Non-HEDD & Non-Utility Turbine
Subject to NSPS Subpart A and Subpart GG"/>	

EF KENILWORTH LLC (41741)
BOP190001

Date: 12/10/2020

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

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD2	Cat Oxidizer	Catalytic Oxidizer to Reduce CO Emissions	Oxidizer (Catalytic)	3/1/1995	No	4/21/1995	

41741 EF KENILWORTH LLC BOP190001 CD2 (Oxidizer (Catalytic))
Print Date: 10/24/2019

Make:	8801-2
Manufacturer:	Camet Carbon Monoxide Converter System
Model:	8801-2
Minimum Inlet Temperature (°F):	980
Maximum Inlet Temperature (°F)	1020
Minimum Outlet Temperature (°F)	
Maximum Outlet Temperature (°F):	1200
Minimum Residence Time (sec)	0.03
Fuel Type:	Other
Description:	Natural Gas and #2 Fuel Oil
Maximum Rated Gross Heat Input (MMBtu/hr):	
Minimum Pressure Drop Across Catalyst (psi):	
Maximum Pressure Drop Across Catalyst (psi):	0.144
Catalyst Material:	Platinum Based Precious Metal
Form of Catalyst:	Other
Description:	Metal Monolith
Minimum Expected Life of Catalyst:	5
Units:	Years
Volume of Catalyst (ft³):	63
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	

EF KENILWORTH LLC (41741)
BOP190001

Date: 12/10/2020

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.		
PT2	Main Stack	Dual Fuel Gas Turbine	Round	96	85	3	284.0	278.0	311.0	175,000.0	161,850.0	194,407.0	Up	
PT3	Bypass Stack	Dual Fuel Gas Turbine	Round	96	85	48	900.0	278.0	930.0	304,000.0	161,850.0	194,407.0	Up	

EF KENILWORTH LLC (41741)
BOP190001

Date: 12/10/2020

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

U 2 Dual Gas Trb G E Model LM2500-33 Dual Fuel (NG and #2 FO) Stationary Gas Turbine w/ Inlet Air Cooling System - 248.6 MMBtu/hr, Subject to NSPS
Subpart A & 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	Normal-#2FO	Normal conditions, #2 Fuel Oil, Catalytic Oxidizer to minimize CO emissions	Normal - Steady State	E2	CD2 (P)	PT2	2-01-001-01	0.0	500.0		161,850.0	194,407.0	278.0	311.0
OS2	Normal-Gas	Normal conditions, Natural Gas, Catalytic Oxidizer to minimize CO emissions	Normal - Steady State	E2	CD2 (P)	PT2	2-01-002-01	0.0	8,760.0		161,850.0	194,407.0	278.0	311.0
OS3	Startup-FO	Start-up conditions for #2 Fuel Oil	Startup	E2		PT3	2-01-001-01	0.0	2.0					
OS4	Shutdown-FO	Shutdown conditions for #2 Fuel Oil	Shutdown	E2		PT3	2-01-001-01	0.0	2.0					
OS5	Transfer-FO	Transfer process between liquid and gas fuels	Normal - Steady State	E2		PT3	2-01-001-01	0.0	0.5					
OS6	Startup-NG	Start-up conditions for Natural Gas	Startup	E2		PT3	2-01-001-01	0.0	2.0					
OS7	Shutdown-NG	Shutdown conditions for Natural Gas	Shutdown	E2		PT3	2-01-001-01	0.0	2.0					
OS8	Transfer-NG	Transfer process between gas and liquid fuels	Normal - Steady State	E2		PT3	2-01-001-01	0.0	0.5					