

**Exhibit 1 – Part 1**

**Hess NEC Proposed Permit  
Permit Activity No.: BOP110001  
Program Interest No.: 08857**



# State of New Jersey

DEPARTMENT of ENVIRONMENTAL PROTECTION

CHRIS CHRISTIE  
Governor

BOB MARTIN  
Commissioner

KIM GUADAGNO  
Lt. Governor

Division of Air Quality  
Bureau of Air Permits  
401 E. State Street, 2<sup>nd</sup> floor, P.O. Box 420, Mail Code 401-02  
Trenton, NJ 08625-0420

## Air Pollution Control Operating Permit PSD Permit and Initial Operating Permit for a PSD Affected Facility

Permit Activity Number: BOP110001

Program Interest Number: 08857

Mailing Address	Plant Location
MICHAEL GREGG DIRECTOR HESS CORP 1 HESS PLAZA Woodbridge, NJ 07095	HESS NEWARK ENERGY CENTER Doremus Ave & Delancy St Newark City Essex County

**Prevention of Significant Deterioration Permit (PSD) Effective date: 30 days from 9/13/12 (if no appeal)**

**Initial Operating Permit Approval Date: TBD**

**Operating Permit Expiration Date: TBD**

This Prevention of Significant Deterioration Permit is issued under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2), and federal Prevention of Significant Deterioration regulations at 40 CFR 52.21. This permit shall constitute the authorization to construct the equipment/control devices, and/or stacks specified in this permit.

You are authorized to commence construction on this project on the effective date of this permit. The effective date of this permit is 30 calendar days after the Department gives the notice of permit issuance, except when there is a request for administrative review pursuant to 40 CFR 124.19, in which case the effective date is the date administrative review is denied, or the administrative review is completed and the permit is approved.

The PSD regulations, specifically 40 CFR 52.21(q) and 40 C.F.R. 124.19, provide for administrative review of a final PSD permit decision within 30 days from the date of issuance of the permit. The opportunity for administrative review of the final PSD permit decision will commence with notice of its issuance to the public. The procedural requirements for administrative review are defined in the Consolidated Permits Regulations codified at 40 CFR 124 (45 FR 33405). Requests for administrative review of a final PSD permit decision should be made to the USEPA's Environmental Appeals Board using the addresses found at [http://yosemite.epa.gov/oa/EAB\\_Web\\_Docket.nsf](http://yosemite.epa.gov/oa/EAB_Web_Docket.nsf).

Administrative review is available only to those persons who commented during the public comment period and is restricted to issues raised during the comment period with the exception that any person, including those who failed to file comments on the preliminary permit determination, may petition for administrative review of the changes from the draft PSD permit to the final PSD permit. Upon issuance by the Department of the final permit decision, or in the case of an administrative review upon completion of the administrative review process, the final PSD permit decision will be a final action and will be published in the Federal Register. The final PSD permit shall not be subject to later judicial review in enforcement proceedings. Opportunity for judicial review is only provided at the completion of the administrative appeals process and is only provided to those persons who were parties in an administrative appeal. Judicial review following the administrative appeals process may be obtained by filing a petition for review in the United States Court of Appeals for the appropriate circuit within 60 days of the final decision.

If construction is not commenced within 18 months of the effective date of this approval, this permit shall become invalid. Commence, as applied to construction of this source, is defined at 40 CFR 52.21(b)(9).

The Initial Operating Permit for a PSD affected source is < approved and issued> <not approved and issued> under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). This permit shall constitute the authorization to construct the equipment/control devices and stacks specified in this permit. The equipment at the facility must be operated in accordance with the requirements of this permit. The source or modification shall meet the requirements of PSD regulations at 40 CFR 52.21(j) through (r)(4), as applicable.

Pursuant to N.J.A.C. 7:27-22.33, all preconstruction permits and operating certificates issued to this facility have been incorporated in this operating permit. Henceforth, any changes to the facility requiring a revision to the operating permit, including any changes requiring preconstruction review, shall be conducted in accordance with the requirements of N.J.A.C. 7:27-22. The criteria for determining if an operating permit revision is required is specified at N.J.A.C. 7:27-22.20 through 24.

This operating permit includes a permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17. This operating permit does not include compliance schedules as part of the approved compliance plan.

The permittee shall submit to the Department and to the EPA a periodic compliance certification, in accordance with N.J.A.C. 7:27-22.19. The certification shall be submitted electronically through the NJDEP online web portal – Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to DEP Online shall be obtained by following the instructions at: <http://www.state.nj.us/dep/online/>. The certification should be printed for submission to EPA. The schedule for compliance certifications set forth in the compliance plan in this operating permit. The annual compliance certification reporting period will cover the calendar year ending December 31. **The annual compliance certification is due to the Department and the EPA within 60 days after the end of each calendar year during which this permit was in effect.** If unable to submit electronically, the certification shall be submitted on forms provided by the Department at: <http://www.nj.gov/dep/enforcement/compliancecertsair.htm>.

The annual compliance certification report may also be considered as your six month deviation report for the period from July 1 through December 31 which is due by January 30 of each year, as required by paragraph 13 in Section F, *General Provisions and Authorities*, of this permit, if the annual compliance certification is submitted by January 30.

New Jersey Department of Environmental Protection  
Air & Environmental Quality Compliance & Enforcement  
401 East State Street, P. O. Box 422  
Trenton, New Jersey 08625-0422

United States Environmental Protection Agency, Region II  
Air Compliance Branch  
290 Broadway  
New York, New York 10007-1866

New Jersey Department of Environmental Protection  
Air and Environmental Quality Compliance & Enforcement  
Central Regional Enforcement Office  
PO Box 420, 22 South Clinton Avenue  
Trenton, New Jersey 08625-0420

Your facility's current approved operating permit is now available for download in the 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 Interested (PI) Number as instructed on the screen. A RADIUS file for your permit, containing Facility Specific Requirements (Compliance Plan), Inventories, and Compliance Schedules (if needed), can be obtained by contacting your permit writer. Upon importing this information into your personal computer with RADIUS software, you will have up-to-date information in RADIUS format. RADIUS software, instructions, and help are available at the Department's website at [www.state.nj.us/dep/aqpp](http://www.state.nj.us/dep/aqpp). We also have an Operating Permit Help Line available from 9:00 AM to 4:00 PM daily, where you may speak to someone about any questions you may have. The Operating Permit Help Line number is 609-633-8248.

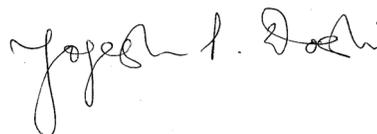
If, in your judgment, the Department is imposing any unreasonable condition of approval, you may contest the Department's decision and request an adjudicatory hearing pursuant to N.J.S.A. 52:14b-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information requested in N.J.A.C. 7:27-1.32 and the information on the enclosed Administrative Hearing Request Checklist and Tracking Form.

The permittee is responsible for submitting a timely and administratively complete operating permit renewal application. The Operating Permit Renewal Application consists of a RADIUS application and the Application Attachment available in Portable Document Format (PDF) and MS Word format at the Department's website <http://www.nj.gov/dep/aqpp/applying.html> (check Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents (saved on a CD) must be submitted with a cover letter (paper copy). 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, an application for renewal of the operating permit shall include all of the 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 the Department can notify the applicant of any deficiencies in the application. This will allow the permittee to correct any deficiencies, and to better ensure that the application is administratively complete by the renewal deadline. Only applications which are timely and administratively complete will be eligible for coverage by an application shield.

Permittees 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. Details of the rule and guidance on how to prepare a plan can be found at EPA's website: [www.epa.gov/ttn/emc/cam.html](http://www.epa.gov/ttn/emc/cam.html). In addition, CAM Plans must be included as part of the permit renewal application. Permittees that do not submit a CAM Plan may have their modification applications denied, pursuant to N.J.A.C. 7:27-22.3.

If you have any questions regarding this permit approval, please call your permit writer, Michael Hogan, at (609) 633-1124

Approved by:



Yogesh Doshi  
Bureau of Air Permits

Enclosure

CC: S. Riva, USEPA Region II  
Chief, Permitting Section  
USEPA, Region 2  
290 Broadway, 25th Floor  
New York, NY 10007-1866

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Lakewood, CO 80235

Tim Allen  
U.S. Fish and Wildlife Service  
7333 West Jefferson Avenue, Suite 375  
Lakewood, CO 80235

## Administrative Hearing Request Checklist and Tracking Form

### I. Document Being Appealed

Name of the Facility	Program Interest (PI) Number	Permit Activity Number	Issuance Date
HESS NEWARK ENERGY CENTER	08857	BOP110001	

### II. Contact Information

Name of Person Requesting Hearing	Name of Attorney (if applicable)
<b>Address:</b>	<b>Address:</b>
<b>Telephone:</b>	<b>Telephone:</b>

### III. Please include the following information as part of your request:

- A. The date the permittee received the permit decision,
- B. One printed and two PDF (or scanned) copies of the document being appealed saved on two CDs – for submitting to address 1 below;  
A PDF (or scanned) copy of all documents being submitted to the Office of Legal Affairs saved on a CD – for submitting to address 2 below;
- C. The legal and factual questions you are appealing;
- D. A statement as to whether or not you raised each legal and factual issues during the permit application process;
- E. Suggested revised or alternative permit conditions;
- F. An estimate of the time required for the hearing;
- G. A request, if necessary, for a barrier-free hearing location for physically disabled persons;
- H. A clear indication of any willingness to negotiate a settlement with the Department prior to the Departments processing of your hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

1. New Jersey Department of Environmental Protection  
Office of Legal Affairs  
Attention: Adjudicatory Hearing Requests  
401 E. State Street, P.O. Box 402  
Trenton, New Jersey 08625-0402
  
2. Mr. Bachir Bouzid  
Air Quality Permitting Program  
New Jersey Department of Environmental Protection  
401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02  
Trenton, New Jersey 08625-0420  
Phone: (609) 633-2829

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

## Administrative Hearing Request Checklist and Tracking Form

### IV. If you are not the applicant but rather an interested person claiming to be aggrieved by the permit decision, please include the following information:

1. The date you or your agent received notice of the permit decision (include a copy of that permit decision with your hearing request);
2. Evidence that a copy of the request has been delivered to the applicant for the permit which is the subject of the permit decision;
3. A detailed statement of which findings of fact and/or conclusion of law you are challenging;
4. A description of your participation in any public hearings held in connection with the permit application and copies of any written comments you submitted;
5. Whether you claim a statutory or constitutional right to a hearing, and, if you claim such a right, a reference to the applicable statute or explanation of how your property interests are affected by the permit decision;
6. If the appeal request concerns a CAFRA permit decision, evidence that a copy of the request has been delivered to the clerks of the county and the municipality in which the project which is the subject of the permit decision is located;
7. Suggested revised or alternative permit conditions;
8. An estimate of the time required for the hearing;
9. A request, if necessary, for a barrier-free hearing location for physically disable persons;
10. A clear indication of any willingness to negotiate a settlement with the Department prior to the Department's transmittal of the hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

1. New Jersey Department of Environmental Protection  
Office of Legal Affairs  
Attention: Adjudicatory Hearing Requests  
401 East State Street, P.O. Box 402  
Trenton, New Jersey 08625-0402
  
3. Mr. Bachir Bouzid  
Air Quality Permitting Program  
New Jersey Department of Environmental Protection  
401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02  
Trenton, New Jersey 08625-0420  
Phone: (609) 633-2829

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**Signature**

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**Date**

**Facility Name: HESS NEWARK ENERGY CENTER**  
**Program Interest Number: 08857**  
**Permit Activity Number: BOP110001**

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## Section A

**Facility Name: HESS NEWARK ENERGY CENTER**  
**Program Interest Number: 08857**  
**Permit Activity Number: BOP110001**

### REASON FOR PERMIT

The reason for issuance of this permit is to comply with the air pollution control permit provisions of Title V of the federal Clean Air Act, federal rules promulgated at 40 CFR 70, and state regulations promulgated at N.J.A.C. 7:27-22, which requires the state to issue operating permits to major facilities and minor facilities that are in certain designated source categories. This is the PSD and operating permit for the facility listed on the cover page. The facility will consist of:

1. Two General Electric (GE) 207FA.05 most modern, environmentally friendly, and energy efficient combined cycle combustion turbine generators (CTGs), two heat recovery steam generators (HRSG) equipped with duct burners. Each turbine will be equipped with Selective Catalytic Reduction System (SCR) to reduce NO<sub>x</sub> emissions and an Oxidation Catalyst to reduce CO emissions to the lowest possible level. Each combustion turbine will have a maximum rated heat input of 2,320 million British thermal units per hour (MMBtu/hr) at an ambient temperature of -8<sup>0</sup>F, based on higher heating value of fuel (HHV) (not including supplemental duct-firing), and a maximum heat input rate of 2,266 MMBtu/hr HHV with supplemental duct-firing at 59<sup>0</sup>F.
2. One 12-cell wet mechanical draft cooling tower.
3. One 66.2 MMBtu/hr (HHV) auxiliary boiler equipped with low NO<sub>x</sub> burners that would operate on natural gas for 800 hrs per year or less.
4. One 270 HP diesel fire pump that would operate on ultra low sulfur distillate (ULSD) fuel oil with a sulfur content of 15 ppm by weight or less, for up to 200 hours per year.
5. One 1500 kilowatt (KW) emergency diesel generator that would use ULSD fuel oil and operate for 200 hours or less per year
6. Storage tanks, and ancillary equipment

New Jersey has elected to integrate its Title I New Source Review (NSR) preconstruction permits with the new Title V operating permits instead of issuing separate permits.

The New Jersey Department of Environmental Protection (Department) issues this operating permit authorizing the facility to operate equipment and air pollution control devices. In the operating permit application, the facility represented that it meets all applicable requirements of the federal Clean Air Act and the New Jersey Air Pollution Control Act codified at N.J.S.A. 26:2C. Based on an evaluation of the data contained in the facility's application, the Department has approved this operating permit.

This permit allows this facility to operate the equipment and air pollution control devices specified in this permit and emit up to a level specified for each source operation. The signatories named in the application are responsible for ensuring that the facility is operated in a manner consistent with this permit, its conditions, and applicable rules.

## **Section B**

**Facility Name: HESS NEWARK ENERGY CENTER**

**Program Interest Number: 08857**

**Permit Activity Number: BOP110001**

### **DEFINITIONS**

The terms used in this permit are used consistent with the definitions at N.J.A.C. 7:27-1 and N.J.A.C. 7:27-22. Any terms defined in this section are not defined at N.J.A.C. 7:27-1 or N.J.A.C. 7:27-22, and are needed for clarifying the permit.

“Permitting Authority” means the New Jersey Department of Environmental Protection (NJDEP).

“The EPA,” or the “Administrator,” means the Administrator of the EPA or his designee.

“M” preceding a unit of measure means one thousand. For example, “10 M gal.” means ten thousand gallons.

“MM” preceding a unit of measure means one million. For example, “10 MM gal.” means ten million gallons.

“Grandfathered” means, in reference to equipment or control apparatus, that construction, reconstruction, or modification occurred prior to enactment of N.J.S.A. 26:2C-9.2 on June 15, 1967, or prior to the subsequent applicable revisions to rules and regulations codified at N.J.A.C. 7:27-8 that occurred March 5, 1973, June 1, 1976, April 5, 1985, and October 31, 1994, and no construction, reconstruction, or modification of the equipment or control apparatus has occurred since.

“Compliance Plan” means the applicable requirements, monitoring requirements, recordkeeping requirements, and submittal/action requirements detailed in Section G, Facility Specific Requirements, of the operating permit.

**Section C**

**Facility Name: HESS NEWARK ENERGY CENTER**  
**Program Interest Number: 08857**  
**Permit Activity Number: BOP110001**

**POLLUTANT EMISSIONS SUMMARY**

The following table indicates the facility's Potential to Emit (PTE) emissions summary:

Source Categories	Facility Total Potential to Emit (tons per year)										
	Primary						Secondary				
	VOC (total)	NO <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	Other <sup>3</sup> (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> (total)	Pb	HAPs (total)	CO <sub>2e</sub>
Emission Unit Summary	34.99	139.36	483.7	19.73	101.27	282.35	101.27	97.65	.00002	8.22	2.0E6
Batch Process Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Source Fugitive Emissions <sup>1</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Group Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Emissions <sup>2</sup>	34.99	139.1	483.7	19.73	101.27	282.35	101.27	97.65	.00002	8.22	2.0E6

VOC Volatile Organic Compounds

NO<sub>x</sub> Nitrogen Oxides

CO Carbon Monoxide

SO<sub>2</sub> Sulfur Dioxide

TSP Total Suspended Particulates

Other Any other air contaminant regulated under the Federal Clean Air Act

PM<sub>10</sub> Particulates under 10 microns

PM<sub>2.5</sub> Particulates under 2.5 microns

Pb Lead

HAPs Hazardous Air Pollutants

CO<sub>2e</sub> Carbon Dioxide equivalent

<sup>1</sup> Not applicable to this facility.

<sup>2</sup> Total emissions from this facility do not include emissions from Insignificant Sources.

<sup>3</sup> Sum of Ammonia, H<sub>2</sub>SO<sub>4</sub> and Methane emissions

## Section C

**Facility Name: HESS NEWARK ENERGY CENTER**

**Program Interest Number: 08857**

**Permit Activity Number: BOP110001**

### POLLUTANT EMISSIONS SUMMARY

The following table indicates the facility's hazardous air pollutants (HAP) emissions summary:<sup>3</sup>

HAP	TPY
Acrolein	0.06
Benzene	0.23
Formaldehyde	2.15
Toluene	2.51

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<sup>3</sup> Do not sum these values for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

## Section D

**Facility Name: HESS NEWARK ENERGY CENTER**

**Program Interest Number: 08857**

**Permit Activity Number: BOP110001**

### **POLLUTION PREVENTION REPORTING**

#### General Pollution Prevention Conditions

The following evaluation requirements are included to track the facility's progress in several critical areas identified in the National Environmental Performance Partnership System (NEPPS). Nitrogen Oxides (NO<sub>x</sub>) and Volatile Organic Compounds (VOC) are precursors to the air pollutant Ozone, for which New Jersey is non-attainment with the air quality standard for the protection of public health. The control of hazardous air pollutants (HAPs) is also a focus item for the next decade in order to minimize localized hot spots and general urban air toxics levels. Therefore, the Department is requiring evaluation of emission trends at 5-year intervals for major sources of these air contaminants. Also, as part of significant modification applications, proposed major increases of these air contaminants require evaluation of pollution prevention and cross media effects.

The evaluation of these trends requires no increased monitoring. Rather it utilizes existing monitoring data, as reported annually in Emission Statements (for NO<sub>x</sub> and VOC) and annual Release and Pollution Prevention Reports (for HAPs). The intent of this evaluation is to better utilize the existing data by having the company, the public and the Department review major source trends periodically, as part of the 5-year renewal review and public comment process. The Department requests that the facility-wide trends be presented on graphs for attachment to the public information document for the 5-year renewal.

Pollution prevention includes changes that result in the reduction in use or generation of non-product output per unit of product. Cross media effects are practices that result in transferring the ultimate release or disposal of a contaminant from one environmental medium (e.g. air) to another environmental medium (e.g. water, solid or hazardous wastes).

#### Information to include with the renewal application:

1. The facility will evaluate annual emission trends over the last five years for actual air contaminant emissions of Volatile Organic Compounds (VOC), Nitrogen Oxides (NO<sub>x</sub>), if the facility's potential to emit VOC or NO<sub>x</sub> is greater than 25 tons per year, or any Hazardous Air Pollutants (HAP), for which the facility's potential to emit is greater than 10 tons per year. The VOC and NO<sub>x</sub> emission data should reflect annual emission statement reports submitted pursuant to N.J.A.C. 7:27-21, and the HAP emissions data should reflect the annual Release and Pollution Prevention Report submitted pursuant to N.J.A.C. 7:1G-4 and 5 and N.J.A.C. 7:1K-6. Although not required, the Department encourages the facility to explain the reason for any significant trend, including whether it is the result of cross media shifts (to air, water, or solid waste) and/or pollution prevention. Changes should be itemized for each emission unit (or process) with a potential to emit over five tons per year of VOC or NO<sub>x</sub> or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.
2. The facility will summarize annual potential to emit limits (allowable emissions) for VOC, NO<sub>x</sub>, and HAPs, which are subject to reporting under 1 above, for the last five years. Changes should be itemized for each emission unit (or process) with a potential to emit over five tons per year of VOC or NO<sub>x</sub> or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.
3. The facility will summarize five-year trends in annual VOC, NO<sub>x</sub>, and HAP emissions, which are subject to reporting under 1 above, on a pound per unit of product basis, based on annual actual emissions and annual production over the five year period. Changes should be itemized for each emission unit (or

process) with a potential to emit over five tons per year of VOC or NOx or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.

4. The facility will discuss five-year trends in actual air contaminant emissions of non-source VOC and HAP fugitives, which are subject to reporting under 1 above; explain measures taken to minimize such fugitives; and provide an explanation for any significant changes.

Information to include with an application for a Significant Modification to this permit:

1. For any significant modifications, the facility is encouraged to explain any cross media shifts of VOC and HAP air contaminants as part of the significant modification application. If an explanation is provided, the facility should identify the pollutant and the specific environmental media to which the pollutant is anticipated to be transferred, whether it be from air to solid waste or water, or from water or solid waste to the air.

## Section E

**Facility Name: HESS NEWARK ENERGY CENTER**

**Program Interest Number: 08857**

**Permit Activity Number: BOP110001**

### GENERAL PROVISIONS AND AUTHORITIES

#### Operating Permits

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 which occurs only in areas over which the permittee has exclusive use or occupancy. Conditions 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:

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

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

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 P.M. 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. The Department and its authorized representatives shall have the right to enter and inspect any facility 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]
11. 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]
12. 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)]
13. In accordance with N.J.A.C. 7:27-22.19(c) and 22.19(d) 3, each permittee shall submit to the Department a six month deviation report relating to testing and monitoring required by the operating permit, not including information for testing and monitoring which have other reporting schedules specified in the permit. Normally, stack testing reporting is submitted within 45 days of test completion and continuous monitoring reporting is done quarterly. The six month report must address other specified monitoring, including, but not limited to, continuous and periodic monitoring data required by this permit. (See column two and three entitled "Monitoring Requirement" and "Recordkeeping Requirement," respectively, in the Facility Specific Requirement Section of this permit.). The six month reports for the testing and monitoring performed from January 1 through June 30, shall be reported by July 30 of the same calendar year; or from July 1 through December 31, shall be reported by January 30 of the following calendar year. Pursuant to N.J.A.C. 7:27-22.19(e), these six month reports shall clearly identify all deviations from operating permit requirements, the probable cause of such deviations, and any corrective actions taken. Any "None" listed in the Submittal/Action Requirement in the Operating Permit is not intended to override the six-month deviation report. The report shall be certified pursuant to N.J.A.C. 7:27-1.39 by a responsible official. The submittal procedure is listed in column entitled "Submittal/Action Requirement" in the Facility Specific Requirement Section FC of this permit. [N.J.A.C. 7:27-22.19(d) 3 and N.J.A.C. 7:27-22.19(e)]

An annual compliance certification required by paragraph 2 above and required by N.J.A.C. 7:27-19(f) may also be considered as your six month deviation report for the period from July 1 through December 31 which is due by January 30 of each year if the annual compliance certification is submitted by January 30.

14. 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 in 15 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.

15. For situations other than those covered by 14 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 start-up 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)]
16. Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. [N.J.A.C. 7:27-22.18(j)]
17. Major facilities may periodically utilize temporary mobile equipment, for short-term activities, 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 of the subject equipment has obtained and maintains an approved mobile preconstruction permit, issued pursuant to N.J.A.C. 7:27-8, 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 mobile preconstruction 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 ninety (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 re-occur 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. 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]
19. 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)]

20. 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, unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]
21. 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.
22. 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.
23. The permittee shall file a timely and complete application for:
  - 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(6)].
24. Except as allowed in Technical Manual 1005, or otherwise allowed by the Department in this permit or in written guidelines/ procedures issued or approved by the Department, process monitors required by the Compliance Plan included in this permit must be operated at all times when the associated process equipment is operating. The permittee must keep a service log to document any outage.

**Section F**

**Facility Name: HESS NEWARK ENERGY CENTER**

**Program Interest Number: 08857**

**Permit Activity Number: BOP110001**

**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>
E	---	15	---
G	FC	---	3
G	FC	---	9
G	FC	---	16

## **Section G**

**Facility Name: HESS NEWARK ENERGY CENTER**

**Program Interest Number: 08857**

**Permit Activity Number: BOP110001**

### **COMPLIANCE PLAN AND INVENTORIES**

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- FACILITY PROFILE (ADMINISTRATIVE INFORMATION)
- REASON FOR APPLICATION
- NON-SOURCE FUGITIVE EMISSIONS
- INSIGNIFICANT SOURCE EMISSIONS
- EQUIPMENT INVENTORY
- EQUIPMENT DETAILS
- CONTROL DEVICE INVENTORY
- CONTROL DEVICE DETAILS
- EMISSION POINT INVENTORY
- EMISSION UNIT/BATCH PROCESS INVENTORY
- POTENTIAL TO EMIT –

**Facility Name: HESS NEWARK ENERGY CENTER**  
**Program Interest Number: 08857**  
**Permit Activity Number: BOP110001**

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 Facility Specific Requirements

Subject Item: FC

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	General Provisions: Defines numerous terms used in N.J.A.C. 7:27. Specifies procedures for making confidentiality claims, certifying applications, reports, and other documents to the Department, and requesting adjudicatory hearings and stays of the effective date of departmental decisions. Also, provides provisions regarding applicability, severability, and liberal construction of N.J.A.C. 7:27. [N.J.A.C. 7:27- 1]	None.	None.	None.
2	Control and Prohibition of Open Burning: Prohibits any person 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: Notwithstanding compliance with other subchapters of N.J.A.C. 7:27, no person shall suffer, allow, or permit to be emitted into the outdoor atmosphere substances in quantities that result in air pollution as defined at N.J.A.C. 7:27-5.1. Applicable to all facilities located in New Jersey. [N.J.A.C. 7:27- 5]	None.	None.	None.
4	Prevention and Control of Air Pollution Control Emergencies: Requires that written Standby Plans, consistent with good industrial practice and safe operating procedures, be prepared for reducing the emission of air contaminants during periods of an air pollution alert, warning, or emergency. Any person responsible for the operation of a source of air contamination 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]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Emission Offsets Rules. [N.J.A.C. 7:27-18]	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [N.J.A.C. 7:27-18].	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [N.J.A.C. 7:27-18].	Comply with the requirement: Upon occurrence of event. Submit an administratively complete application when applying for a minor modification pursuant to N.J.A.C. 7:27-22.23 or a significant modification pursuant to N.J.A.C. 7:27-22.24. [N.J.A.C. 7:27-22]
6	Emissions Statements: Submit an annual emission statement (if required) electronically to the NJDEP by May 15 of each year (or by mutually agreed upon date, but no later than June 15 of each year). [N.J.A.C. 7:27-21]	Other: The emission statement will be based on monitoring, recording and recordkeeping of actual emissions, capture and control efficiencies, process rate and operating data for source operations with the potential to emit certain air contaminants. [N.J.A.C. 7:27-21].	Other: The emission statement and all supporting records shall be maintained on the operating premises for a period of five (5) years from the due date of each emission statement. [N.J.A.C. 7:27-21].	Submit an Annual Emission Statement: Annually (if required) electronically by May 15 or by any mutually agreed upon date, but not later than June 15 of each year. [N.J.A.C. 7:27-21]
7	Compliance Certification: Submit annual compliance certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f), within 60 days after the end of each calendar year during which this permit was in effect. [N.J.A.C. 7:27-22]	None.	None.	Submit an Annual Compliance Certification: Annually to the Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. The annual compliance certification reporting period will cover the calendar year ending December 31. The certification shall be submitted electronically through the NJDEP online web portal - Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to the NJDEP online web portal shall be obtained by following the instructions at: <a href="http://www.state.nj.us/dep/online/">http://www.state.nj.us/dep/online/</a> . The certification should be printed for submission to EPA. [N.J.A.C. 7:27-22]
8	Prevention of Air Pollution from Architectural Coatings and Consumer Products. [N.J.A.C. 7:27-23]	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
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 (PSD). [40 CFR 52.21]	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [40 CFR 52.21].	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [40 CFR 52.21].	Comply with the requirement: Upon occurrence of event. If subject to PSD, the permittee shall submit an administratively complete application when applying for a significant modification pursuant to N.J.A.C. 7:27-22.24. [N.J.A.C. 7:27-22]
11	National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Asbestos. [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 61.145 and 61.150 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 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	<p>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]</p>	<p>Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].</p>	<p>Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].</p>	<p>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]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	<p>Deviation Report: In accordance with N.J.A.C. 7:27-22.19(c) and 22.19(d)3, the permittee shall submit to the Department, on forms provided by the Department, a certified six-month deviation report relating to testing and monitoring required by the operating permit, not including information for stack emissions testing or continuous emissions monitoring which have other reporting schedules specified in the permit (normally, stack test report is submitted within 45 days of test completion and continuous monitor reporting is done quarterly). Pursuant to N.J.A.C. 7:27-22.19(e), the six-month report must address other specified monitoring, including continuous and periodic monitoring requirements found in column 2 and 3, entitled "Monitoring Requirement" and "Recordkeeping Requirement," respectively, of the Facility Specific Requirements section of this permit. These six-month reports shall clearly identify all deviations from operating permit requirements, the probable cause of such deviations, and any corrective actions or preventive measures taken. If no deviations occurred, the report should say so. Any "None" listed in the Submittal/Action Requirement in the Operating Permit is not intended to override the six-month deviation report. [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.	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)].	<p>Submit a report: As per the approved schedule. The six-month reports for other specified testing or monitoring required by the operating permit performed from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and from July 1 through December 31, shall be submitted by January 30 of the following calendar year. The report shall be submitted electronically through the NJDEP online web portal - Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to the NJDEP online web portal shall be obtained by following the instructions at: <a href="http://www.state.nj.us/dep/online/">http://www.state.nj.us/dep/online/</a> . [N.J.A.C. 7:27-22]</p>
14	<p>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>

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

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
15	Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with 40 CFR 68. [40 CFR 68]	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]
16	The permittee shall submit an annual report to the Department. The report shall update the status of the environmental program funding projects which Hess is funding in the City of Newark, pursuant to resolution 7R3D(AS), adopted by the Municipal Council of Newark on May 2, 2012. Resolution 7R3D(AS) approves the execution of an agreement between the City of Newark and Newark Energy Center (NEC), in which NEC committed to provide 12.65 Million dollars to the City of Newark for various programs. Specifically, the report shall include a description of each environmental program funding project, its location, its implementation status and an estimate of the environmental benefit of the project. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Submit a report: Annually. Submit a report to the Bureau of Air Permits by January 30th of each year. [N.J.A.C. 7:27-22.16(a)]

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Facility Specific Requirements**

Subject Item: IS1 Fuel Oil Storage Tanks

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank content limited to ultra low sulfur distillate (ULSD) oil. The sulfur content of ULSD shall not exceed 0.0015%. [N.J.A.C. 7:27-22.16(a)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 2,000 ppmw (0.2 % by weight). Maximum allowable sulfur content in No. 2 and lighter fuel oil for zone 4. NOTE: This requirement is effective through June 30, 2014. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Sulfur Content in Fuel <= 500 ppmw (0.05 % by weight). Maximum allowable sulfur content in No. 2 and lighter fuel oil. NOTE: This requirement is effective starting July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015 % by weight). Maximum allowable sulfur content in No. 2 and lighter fuel oil. NOTE: This requirement is effective on and after July 1, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was initially stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in 1B. [N.J.A.C. 7:27-9.2(a)]	None.	None.	None.
6	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	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.
8	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
9	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The tank(s) shall be subject to the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. The tank shall not be subject to any other NESHAPS, MACT, or NSPS air pollution control standards. [N.J.A.C. 7:27-22.1]	None.	None.	None.
11	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
12	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
13	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 meets the applicable requirements of Ref. #1 to #7 above; and (3) attests that the tank is in compliance with all other applicable state or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.
14	Comply, as applicable, with the requirements of NSPS Subpart Kb, 40 CFR 60.116b(a) and (b). [40 CFR 60]	None.	None.	None.

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**Subject Item: IS2 Aqueous Ammonia Storage Tanks - (2) 20,000 gal tanks**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	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.
3	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank(s) shall be subject to the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. The tank shall not be subject to any other NESHAPS, MACT, or NSPS air pollution control standards. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
8	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 meets the applicable requirements of Ref. #1 to #7 above; and (3) attests that the tank is in compliance with all other applicable state or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.
9	Comply, as applicable, with the requirements of NSPS Subpart Kb, 40 CFR 60.116b(a) and (b). [40 CFR 60]	None.	None.	None.

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**Subject Item: GR1 Facility wide annual emission cap**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>NOx (Total) &lt;= 139.1 tons/yr based on a consecutive 12 month period, rolling one month basis. [N.J.A.C. 7:27-22.16(a)]</p>	<p>NOx (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Annual emissions of total NOx from the facility shall include NOx emitted by the two turbines and duct burners, one auxiliary boiler, one emergency diesel generator and one fire water pump. The annual emissions shall be calculated as follows:</p> <p>NOx (total) tons/month = Cumulative monthly NOx emissions (tons/month) derived from each combustion turbine CEMS system + (0.66 lbs/hr x monthly operating hours for auxiliary boiler / 2000 lb/ton) + (18.53 lbs/hr x monthly operating hours for Emergency Diesel Generator / 2000 lbs/ton) + (1.55 lbs/hr x monthly operating hours for diesel Fire Water Pump / 2000 lbs/ton).</p> <p>NOx (total) tons/year = is computed by adding the NOx tons/month for a given month to the NOx in tons in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Add total monthly emissions for a given month to total monthly emissions from the previous 11 months. Record annual emissions. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	CO <= 483.7 tons/yr based on a consecutive 12 month period, rolling one month basis. [N.J.A.C. 7:27-22.16(a)]	<p>CO: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Annual emissions of total CO from the facility shall include CO emitted by the two turbines and duct burners, one auxiliary boiler, one emergency diesel generator and one fire water pump. The annual emissions shall be calculated as follows:</p> <p>CO (total) tons/month= Cumulative monthly CO emissions (tons/month) derived from each combustion turbine CEMS system + (2.45 lbs/hr x monthly operating hours for auxiliary boiler / 2000 lb/ton) + (11.56 lbs/hr x monthly operating hours for Emergency Diesel Generator / 2000 lbs/ton) + (1.55 lbs/hr x monthly operating hours for diesel Fire Water Pump / 2000 lbs/ton).</p> <p>CO (total) tons/year = is computed by adding the CO tons/month for a given month to the CO in tons in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]</p>	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Add total monthly emissions for a given month to total monthly emissions from the previous 11 months. Record annual emissions. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>VOC (Total) &lt;= 34.99 tons/yr based on a consecutive 12 month period, rolling one month basis. [N.J.A.C. 7:27-22.16(a)]</p>	<p>VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Annual emissions of total VOC from the facility shall include VOC emitted by the two turbines and duct burners, one auxiliary boiler, one emergency diesel generator and one fire water pump. The annual emissions shall be calculated as follows:</p> <p>VOC (Total) tons/month = (0.0025 lbs/MMBtu emission rate x 1020 Btu/cft x sum of actual MMcf of gas consumed per month for two combustion turbines firing natural gas with duct burner on / 2000 lbs/ton) + (0.0013 lbs/MMBtu x 1020 Btu/cft x sum of actual MMcf of gas consumed per month for two combustion turbines firing natural gas with duct burner off / 2000 lbs/ton) + (0.004 lbs/MMBtu x 1020 Btu/cft x sum of actual MMcf of gas consumed per month for auxiliary boiler / 2000 lb/ton) + (2.62 lbs/hr x monthly operating hours for Emergency Diesel Generator / 2000 lbs/ton) + (0.22 lbs/hr x monthly operating hours for diesel Fire Water Pump / 2000 lbs/ton).</p> <p>VOC (Total) tons/year: shall be calculated by adding the VOC tons/month for a given month to the VOC in tons in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]</p>	<p>VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>SO2 &lt;= 19.73 tons/yr based on a consecutive 12 month period, rolling one month basis. [N.J.A.C. 7:27-22.16(a)]</p>	<p>SO2: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Annual emissions of total SO2 from the facility shall include SO2 emitted by the two turbines and duct burners and one auxiliary boiler. The annual emissions shall be calculated as follows:</p> <p>SO2 (Total) tons/month = (0.0011 lbs/MMBtu x 1020 Btu/cft x sum of actual MMcf of gas consumed per month by two combustion turbines firing natural gas with duct burner on / 2000 lbs/ton) + (0.0011 lbs/MMBtu x 1020 Btu/cft x sum of actual MMcf of gas consumed per month by two combustion turbines firing natural gas with duct burner off / 2000 lbs/ton) + (0.0012 lbs/MMBtu x 1020 Btu/cft x actual MMcf of gas consumed per month for auxiliary boiler / 2000 lb/ton)</p> <p>SO2 (Total) tons/year: shall be calculated by adding the SO2 tons/month for a given month to the SO2 in tons in the preceding 11 months.</p> <p>Note: The SO2 emissions from emergency diesel generator and fire water pump are below reporting thresholds of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(o)]</p>	<p>SO2: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>SO3 and H2SO4, as converted and expressed as H2SO4 &lt;= 10.57 tons/yr based on a consecutive 12 month period, rolling one month basis. [N.J.A.C. 7:27-22.16(a)]</p>	<p>SO3 and H2SO4, as converted and expressed as H2SO4: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Annual emissions of total H2SO4 from the facility shall include H2SO4 emitted by the two turbines and duct burners. The annual emissions shall be calculated as follows:</p> <p>H2SO4 (Total) tons/month = (0.0006 lbs/MMBtu x 1020 Btu/cft x sum of actual MMcf of gas consumed per month for two combustion turbines firing natural gas with duct burner on / 2000 lbs/ton) + (0.0006 lbs/MMBtu x 1020 Btu/cft x sum of actual MMcf of gas consumed per month for two combustion turbines firing natural gas with duct burner off/2000 lbs/ton)</p> <p>SO3 and H2SO4: (Total) tons/year: shall be calculated by adding the SO3 and H2SO4 tons/month for a given month to the SO3 and H2SO4 in tons in the preceding 11 months.</p> <p>Note: The emissions of SO3 and H2SO4 from the auxiliary boiler, emergency diesel generator and fire water pump are below N.J.A.C. 7:27-22 Reporting Thresholds. [N.J.A.C. 7:27-22.16(o)]</p>	<p>SO3 and H2SO4, as converted and expressed as H2SO4: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>TSP &lt;= 67.17 tons/yr based on a consecutive 12 month period, rolling one month basis. [N.J.A.C. 7:27-22.16(a)]</p>	<p>TSP: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Annual emissions of total TSP from the facility shall include TSP emitted by the two turbines and duct burners, one auxiliary boiler, one emergency diesel generator, one fire water pump and one cooling tower. The annual emissions shall be calculated as follows:</p> <p>TSP (Total) tons/month = (0.0034 lbs/MMBtu emission rate x 1020 Btu/cft x sum of actual MMcft of gas consumed per month for two combustion turbines firing natural gas with duct burner on / 2000 lbs/ton) + (0.0031 lbs/MMBtu x 1020 Btu/cft x sum of actual MMcft of gas consumed per month for two combustion turbines firing natural gas with duct burner off/2000 lbs/ton) + (0.0033 lbs/MMBtu x 1020 Btu/cft x sum of actual MMcft of gas consumed per month for auxiliary boiler / 2000 lb/ton) + (0.59 lbs/hr x monthly operating hours for Emergency Diesel Generator / 2000 lbs/ton) + (0.08 lbs/hr x monthly operating hours for diesel Fire Water Pump / 2000 lbs/ton + (2.29 lbs/hr x monthly operating hours for cooling tower/ 2000 lbs/ton).</p> <p>TSP (Total) tons/year: shall be computed by adding the TSP tons/month for a given month to the TSP in tons in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]</p>	<p>TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	PM-10 (Total) <= 101.27 tons/yr based on a consecutive 12 month period, rolling one month basis. [N.J.A.C. 7:27-22.16(a)]	<p>PM-10 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis).</p> <p>Annual emissions of total PM10 from the facility shall include PM10 emitted by the two turbines (CC) and duct burners(DB), one auxiliary boiler, one emergency diesel generator, one fire water pump and one cooling tower. The annual emissions shall be calculated as follows:</p> <p>PM10 (Total) tons/month = ([1020 Btu/cft x {(*lbs/MMBtu for CC Unit1 with DB Unit1 on x actual MMcft of natural gas consumed per month for CC Unit1 with DB Unit1 on) + (*lbs/MMBtu for CC Unit2 with DB Unit2 on x actual MMcft of natural gas consumed per month for CC Unit2 with DB Unit2 on) + (*lbs/MMBtu for CC Unit1 with DB Unit1 off x actual MMcft of natural gas consumed per month for CC Unit1 with DB Unit1 off) + (*lbs/MMBtu for CC Unit2 with DB Unit2 off x actual MMcft of natural gas consumed per month for CC Unit2 with DB Unit2 off)}}] + (0.005 lbs/MMBtu x MMcft of gas consumed by auxiliary boiler/month) + (0.66 lbs/hr x monthly operating hrs for Emergency Diesel Generator) + (0.09 lbs/hr x monthly operating hours for diesel Fire Water Pump + (1.33 lbs/hr x monthly operating hours for the cooling tower)]/(2000 lbs/ton).</p> <p>* the lbs/MMBtu emission factor shall be the average value from the results of all valid stack tests performed during the previous 12 months, for each turbine.</p> <p>PM10 (Total) tons/year: shall be computed by adding the PM10 tons/month for a given month to the PM10 in tons in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]</p>	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	PM-2.5 (Total) <= 97.65 tons/yr based on a consecutive 12 month period, rolling one month basis. [N.J.A.C. 7:27-22.16(a)]	<p>PM-2.5 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Annual emissions of total PM2.5 from the facility shall include PM2.5 emitted by the two turbines (CC) and duct burners (DB), one auxiliary boiler, one emergency diesel generator, one fire water pump and one cooling tower and shall be calculated as follows:</p> <p>PM2.5 (Total) tons/month = [1020 Btu/cft x {(*lbs/MMBtu for CC Unit1 with DB Unit1 on x actual MMcf of natural gas consumed per month for CC Unit1 with DB Unit1 on) + (*lbs/MMBtu for CC Unit2 with DB Unit2 on x actual MMcf of natural gas consumed per month for CC Unit2 with DB Unit2 on) + (*lbs/MMBtu for CC Unit1 with DB Unit1 off x actual MMcf of natural gas consumed per month for CC Unit1 with DB Unit1 off) + (*lbs/MMBtu for CC Unit2 with DB Unit2 off x actual MMcf of natural gas consumed per month for CC Unit2 with DB Unit2 off)} + (0.005 lbs/MMBtu x MMcf of gas consumed by auxiliary boiler/month) + (0.66 lbs/hr x monthly operating hours for Emergency Diesel Generator + (0.09 lbs/hr x monthly operating hours for diesel Fire Water Pump ) + (0.47 lbs/hr x sum of monthly operating hours for the cooling tower)]/(2000 lbs/ton).</p> <p>* the lbs/MMBtu emission factor shall be the average value from the results of all valid stack tests performed during the previous 12 months, for each turbine.</p> <p>PM2.5 (Total) tons/year: shall be computed by adding the PM2.5 tons/month for a given month to the PM2.5 in tons in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]</p>	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	<p>Ammonia &lt;= 119 tons/yr This emission limit applies to the combined operation of (2) combustion turbines. This limit assumes steady state operation of each turbine for 8500hr/yr (at ISO conditions). [N.J.A.C. 7:27-22.16(a)]</p>	<p>Ammonia: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis).</p> <p>Annual emissions of total Ammonia from the facility shall include Ammonia emitted by the two turbines (CC) and duct burners (DB) and shall be calculated as follows:</p> <p>Ammonia tons/month = [(Total Ammonia emitted during the month by two combustion turbines / duct burners operating simultaneously (tons / month) measured by continuous process monitoring system)] + [(Total Ammonia emitted during the month by two combustion turbines operating without duct burner (tons / month) measured by continuous process monitoring system)]</p> <p>Ammonia tons/year = (Total Ammonia (tons/month) for a given month) + (Total Ammonia (tons/month) for the preceding 11 calendar months). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Ammonia: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	<p>Methane &lt;= 152.78 tons/yr This emission limit applies to the combined operation of (2) combustion turbines, (2) duct burners and the auxiliary boiler. This limit assumes steady state operation of each turbine for 8500hr/yr (at ISO conditions). This limit also assumes operation of each duct burner for 1800 hr/yr and the auxiliary boiler for 800 hr/yr.                      . [N.J.A.C. 7:27-22.16(a)]</p>	<p>Methane: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis).</p> <p>Annual emissions of total Methane from the facility shall include Methane emitted by the two turbines (CC), duct burners (DB) and one auxiliary boiler and shall be calculated as follows:</p> <p>Methane tons/month = [(18.3 lbs/hr turbine/db emission rate) x (total hours of operation during the month for two combustion turbines / duct burners operating simultaneously) / (2000 lb/ton)] + [(17.9 lbs/hr turbine emission rate) x (total hours of operation during the month for two combustion turbines without duct burners) / (2000 lb/ton)] + [(0.0023 lbs/MMBtu boiler emission rate) * (1020 MMBtu/MMScf) * (total amount of natural gas (MMScf) combusted during the month by the auxilliary boiler) / (2000 lbs/ton)]</p> <p>Note:The Methane emissions from emergency diesel generator and fire water pump are below reporting thresholds of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Methane: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Add total monthly emissions for a given month to total monthly emissions from the previous 11 months. Record annual emissions.</p> <p>. [N.J.A.C. 7:27-22.16(o)]</p>	None.
11	<p>Total HAPs &lt;= 8.22 tons/yr. Based on the sum of all HAPS emissions, including those above and those below the reporting thresholds in Appendix B of N.J.A.C.7:27-22. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Total HAPs: Monitored by calculations annually, based on a 12 calendar month period. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Total HAPs: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]</p>	None.
12	<p>Acrolein &lt;= 0.06 tons/yr. Based on operation of both turbines for 8500 hr/yr and operation of both duct burners for 1800 hr/yr. [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	None.
13	<p>Benzene &lt;= 0.23 tons/yr. Based on operation of both turbines for 8500 hr/yr and operation of both duct burners for 1800 hr/yr. [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
14	Formaldehyde <= 2.15 tons/yr. Based on operation of both turbines for 8500 hr/yr and operation of both duct burners for 1800 hr/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Toluene <= 2.51 tons/yr. Based on operation of both turbines for 8500 hr/yr and operation of both duct burners for 1800 hr/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	NOx and VOC Emission Offsets 181.2 tons of NOx offsets, and 45.5 tons of VOC (total) offsets that meet the criteria established in N.J.A.C. 7:27-18.1 et. seq. for NOx and VOC (total) emissions, have been acquired by the facility. NOTE: These emission offsets were acquired from sources less than 100 miles away from the proposed Newark Energy Center Site. [N.J.A.C. 7:27-18.3(c)1]	None.	None.	Submit documentation of compliance: Once initially. Obtain emission offsets and submit Purchase Agreement to the Chief, Bureau of Air Quality Permitting, and REO, prior to initial startup of the facility.  The permittee shall submit an Administrative Amendment application to NJDEP to apply emission reduction credits to offset emission increases prior to initial start-up of the turbines. [N.J.A.C. 7:27-18.18(c)1]

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**Subject Item: GR2 GHG requirements for all combustion equipment**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Greenhouse gases as CO2e: <= 2,003,654 tons per 12 consecutive month period for the entire facility [N.J.A.C. 7:27-22.16(a)]	<p>Greenhouse gases as CO2e: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis).</p> <p>Facility wide CO2e annual emissions shall be calculated . Add total emissions from all combustion equipment at the facility for a given month to total emissions from all combustion equipment at the facility for the previous 11 months as follows:</p> <p>Monthly emissions of total CO2e from the facility = Monthly CO2e emitted by the two turbines and duct burners + Monthly CO2e emitted by auxiliary boiler + Monthly CO2e emitted by emergency diesel generator + Monthly CO2e emitted by one fire water pump.</p> <p>CO2e (Total) tons/year: shall be calculated by adding the CO2e tons/month for a given month to the CO2e in tons in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]</p>	Greenhouse gases as CO2e: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	<p>Greenhouse gases as CO2e: &lt;= 2,000,268 tons per year for the two turbines and two duct burners.</p> <p>The owner or operator shall meet the general operating requirements in 40 CFR 75.10 for a CO2 continuous emission monitoring system and flow monitoring system for each affected unit. The owner or operator shall comply with the applicable provisions specified in 40 CFR 75.13(a) [N.J.A.C. 7:27-22.16(a)]</p>	<p>Greenhouse gases as CO2e: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis).</p> <p>Monitor CO2 emissions using a continuous emission monitoring system continuously, based on a consecutive 12 month period (rolling 1 month average). See U1, OS Summary Ref. #5.</p> <p>Calculate total Greenhouse Gases as CO2e by using following equation:</p> <p>CO2e tons/month = [Cumulative monthly CO2 emissions (lbs/month) derived from the combustion turbine CEMS systems / 2000 lbs/ton] + [0.0020 (lbs/MMBtu) x 21 x 1020 Btu/Scf x total MMScf of natural gas consumed, during the month, by both combustion turbines and duct burners / 2000 lbs/ton] + [0.00022 (lb/MMBtu) x 310 x 1020 Btu/Scf x total MMScf of natural gas consumed, during the month, by both combustion turbines and duct burners / 2000 lbs/ton]</p> <p>CO2e tons/year is computed by adding the CO2e tons/month for a given month to the CO2e tons/month for the preceding 11 months.</p> <p>Note the following:                      0.0020: CO2 emission factor for Methane in lb/MM Btu burning NG.                      0.00022: CO2 emission factor for Nitrous oxide in lb/MM Btu burning NG.                      21: Global Warming Potential for methane.                      310: Global Warming Potential for nitrous oxide.                      CO2 Emission factors for electricity generating sources are from Federal Acid Rain Monitoring program, 40 CFR Part 75. Emissions factors for Methane and Nitrous Oxide for all other sources are from 40 CFR Part 98. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Greenhouse gases as CO2e: Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation for CO2.</p> <p>Add total monthly Greenhouse Gas emissions for a given month to total monthly emissions from the previous 11 months (see calculation under "monitoring requirement". Record annual emissions each calendar month. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The turbine net heat Rate at base load without Duct Burner shall be $\leq 7,522$ Btu/kWh (HHV) at ISO conditions, based on higher heating value of the fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations once initially $\text{Btu/kW-hr} = \text{Cu.Ft/hr} * \text{Btu/ Cu.Ft} * 1/\text{kW}$ Where: Cu.Ft/hr - Fuel Consumption Btu/Cu.Ft - British thermal units, based on Higher heating value of fuel, per cubic feet kW - kilowatts - Output power to grid. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
4	CO2 $\leq 887$ lb/MW-hr (gross output) for each combustion turbine and its associated duct burner. [N.J.A.C. 7:27-22.16(a)]	CO2: Monitored by continuous emission monitoring system annually, based on a consecutive 12 month period (rolling 1 month basis) . [N.J.A.C. 7:27-22.16(o)]	CO2: Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation. Add total monthly emissions for a given month to total monthly emissions from the previous 11 months. Record annual emissions. [N.J.A.C. 7:27-22.16(o)]	None.
5	CO2 $\leq 887$ lb/MW-hr (gross output) for each combustion turbine and its associated duct burner. [N.J.A.C. 7:27-22.16(a)]	CO2: Monitored by stack emission testing once initially. Please see stack testing requirements at U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO2: Recordkeeping by stack test results once initially. Please see stack testing requirements at U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: Once initially. Please see stack testing requirements at U1 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
6	Greenhouse gases as CO <sub>2</sub> e: <=3,122 tons per year for the Auxiliary Boiler. [N.J.A.C. 7:27-22.16(a)]	<p>Greenhouse gases as CO<sub>2</sub>e: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis) Calculate total Greenhouse Gases as CO<sub>2</sub>e by using following equation:</p> <p>CO<sub>2</sub>e tons/month = [CO<sub>2</sub> emission factor in lbs/MMBtu x 1020 Btu/Scf x total MMScf of natural gas consumed, during the month, by auxiliary boiler / 2000 lbs/ton] + [0.0020 (lbs/MMBtu) x 21 x 1020 Btu/Scf x total MMScf of natural gas consumed, during the month, by auxiliary boiler / 2000 lbs/ton] + [0.00022 (lb/MMBtu) x 310 x 1020 Btu/Scf x total MMScf of natural gas consumed, during the month, by auxiliary boiler / 2000 lbs/ton]</p> <p>CO<sub>2</sub>e tons/year is computed by adding the CO<sub>2</sub>e tons/month for a given month to the CO<sub>2</sub>e tons/month for the preceding 11 months.</p> <p>Note the following:                      0.0020: CO<sub>2</sub> emission factor for Methane in lb/MM Btu burning NG.                      0.00022: CO<sub>2</sub> emission factor for Nitrous oxide in lb/MM Btu burning NG.                      21: Global Warming Potential for methane.                      310: Global Warming Potential for nitrous oxide.                      CO<sub>2</sub> Emission factors for electricity generating sources are from Federal Acid Rain Monitoring program, 40 CFR Part 75.                      Emissions factors for Methane and Nitrous Oxide for all other sources are from 40 CFR Part 98.                      . [N.J.A.C. 7:27-22.16(o)]</p>	Greenhouse gases as CO <sub>2</sub> e: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Greenhouse gases as CO2e: <=233 tons per year for emergency generator. [N.J.A.C. 7:27-22.16(a)]	<p>Greenhouse gases as CO2e: Monitored by calculations annually, based on a consecutive 12 month period (rolling 1 month basis). Calculate annual CO2e emissions based on annual hours of operation as follows:</p> $\text{CO2e tons/yr} = (164 \text{ lbs/MMBtu} + [310 \times 0.00132 \text{ lbs/MMBtu}] + [21 \times 0.00661 \text{ lbs/MMBtu}]) \times (13.5 \text{ MMBtu/hr}) \times (\text{hours of operation of emergency generator/yr} / (2000 \text{ lb/ton}))$ <p>164 - CO2 emission factor in lb/MMBtu when burning Oil#2.                      0.00661 - CO2 emission factor for Methane in lb/MMBtu when burning Oil#2.                      0.00132 - CO2 emission factor for Nitrous oxide in lb/MMBtu when burning Oil#2.                      21 - Global Warming Potential for methane.                      310 - Global Warming Potential for nitrous oxide.                      CO2 Emission factors for electricity generating sources are from Federal Acid Rain Monitoring program, 40 CFR Part 75.                      Emissions factors for Methane and Nitrous Oxide for all other sources are from 40 CFR Part 98. [N.J.A.C. 7:27-22.16(o)]</p>	Greenhouse gases as CO2e: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Record annual emissions. (See monitoring requirement). [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Greenhouse gases as CO2e: <=31 tons per year for fire water pump engine. [N.J.A.C. 7:27-22.16(a)]	<p>Greenhouse gases as CO2e: Monitored by calculations annually, based on a 12 calendar month period. Calculate annual CO2e emissions based on annual hours of operation as follows:</p> $\text{CO2e tons/yr} = (164 \text{ lb/MMBtu} + [310 \times 0.00132 \text{ in lb/MMBtu}] + [21 \times 0.00661 \text{ lb/MMBtu}]) \times 2.1 \text{ MMBtu/hr} \times \text{hours of operation of fire pump/yr} / (2000 \text{ lb/ton})$ <p>164 - CO2 emission factor in lb/MMBtu when burning Oil#2.                      0.00661 - CO2 emission factor for Methane in lb/MMBtu when burning Oil#2.                      0.00132 - CO2 emission factor for Nitrous oxide in lb/MMBtu when burning Oil#2.                      21 - Global Warming Potential for methane.                      310 - Global Warming Potential for nitrous oxide.                      CO2 Emission factors for electricity generating sources are from Federal Acid Rain Monitoring program, 40 CFR Part 75.                      Emissions factors for Methane and Nitrous Oxide for all other sources are from 40 CFR Part 98. [N.J.A.C. 7:27-22.16(o)]</p>	Greenhouse gases as CO2e: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Record annual emissions. (See monitoring requirement). [N.J.A.C. 7:27-22.16(o)]	None.

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Emission Unit: U1 2 Turbines, 2 HRSGs, and Aux. Boiler

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>Initial Stack Test Requirement for Turbines: Conduct a comprehensive stack test at emission points PT1 and PT2, as applicable, within 180 days of initial start up of the turbine to demonstrate compliance with the NO<sub>x</sub>, CO, VOC, SO<sub>2</sub>, TSP, PM-10, PM-2.5, CO<sub>2</sub> and Ammonia emission limits while firing natural gas.</p> <p>Stack testing shall be conducted every quarter that the turbine is operated to demonstrate compliance with the PM-10 and PM2.5 limits per reference # 3</p> <p>Three tests shall be conducted at worst-case permitted operating conditions achievable on the day of testing, under the corresponding test conditions, such as ambient (relative humidity and temperature) conditions, with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The permittee shall submit the turbine load performance curve with the protocol and all data necessary to substantiate the ambient conditions with the test report. The testing shall be conducted in accordance with the protocol approved by BTS.</p> <p>The initial performance test for compliance with NO<sub>x</sub> emission limits, as per NSPS KKKK, must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Alternatively, the testing might be performed at the highest achievable load point, if at least 75 percent of peak load cannot be achieved.                      [40CFR60.4400] [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing once initially. Unless otherwise approved in the stack test protocol or by the Department, each test run shall be 60 minutes in sampling duration. Compliance period shall be as specified in the monitoring requirement for each applicable emission limit. Stack tests shall be conducted for NO<sub>x</sub>, CO, VOC, SO<sub>2</sub>, TSP, PM-10, PM-2.5, CO<sub>2</sub> and Ammonia emissions while firing natural gas.</p> <p>In accordance with N.J.A.C 7:27-19.15(a)2, any NO<sub>x</sub> testing conducted pursuant to this section shall be conducted concurrently with CO testing. The applicable NO<sub>x</sub> 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 any other permit limit for CO, whichever is more stringent, is also met.                      [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule.</p> <p>Submit a stack test protocol to the Bureau of Technical Services (BTS) at PO Box 437, Trenton, NJ 08625 no later than 60 days after the initial start-up of the turbine. Within 30 days of protocol approval, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date. The stack test must be conducted within 180 days of the initial start-up of the turbine.</p> <p>A full stack test report must be submitted to BTS and a certified summary test report, as described in the protocol, 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.</p> <p>The test results shall be reported in lb/hr, lb/MMBTU (HHV), lb/Mw-hr and ppmvd @ 15% O<sub>2</sub> as applicable.                      [N.J.A.C. 7:27-22.18(e)], and. [N.J.A.C. 7:27-22.18(h)]. [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	<p>Renewal Stack Test Requirement for Turbines: Conduct a comprehensive stack test at emission points PT1 and PT2, as applicable, at least 18 months prior to the expiration of the approved operating permit to demonstrate compliance with the NO<sub>x</sub>, CO, VOC, SO<sub>2</sub>, TSP, PM-10 and PM-2.5 emission limits while burning natural gas.</p> <p>Stack testing shall be conducted every quarter to demonstrate compliance with the PM-10 and PM<sub>2.5</sub> limits per reference # 3</p> <p>Three tests shall be conducted at worst-case permitted operating conditions achievable on the day of testing, under the corresponding test conditions, such as ambient (relative humidity and temperature) conditions, with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The permittee shall submit the turbine load performance curve with the protocol and all data necessary to substantiate the ambient conditions with the test report. The testing shall be conducted in accordance with the protocol approved by BTS.</p> <p>The permittee may propose to use CEMS data to satisfy this stack testing requirement for NO<sub>x</sub> and CO pursuant to REF #4 below. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing prior to permit renewal. Unless otherwise approved in the stack test protocol or by the Department, each test run shall be 60 minutes in sampling duration. Compliance period shall be as specified in the monitoring requirement for each applicable emission limit. Stack tests shall be conducted for for NO<sub>x</sub>, CO, VOC, SO<sub>2</sub>, TSP, PM-10, and PM-2.5 emissions while combusting natural gas.</p> <p>In accordance with N.J.A.C 7:27-19.15(a)2, any NO<sub>x</sub> testing conducted pursuant to this section shall be conducted concurrently with CO testing. The applicable NO<sub>x</sub> 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 any other permit limit for CO, whichever is more stringent, is also met. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results prior to permit renewal. [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 Bureau of Technical Services (BTS) at PO Box 437, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. Within 30 days of protocol approval, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to BTS and a certified summary test report, as described in the protocol, 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.</p> <p>The test results shall be reported in lb/hr, lb/MMBTU (HHV), lb/Mw-hr and ppmvd @ 15% O<sub>2</sub> as applicable.</p> <p>[N.J.A.C. 7:27-22.18(e)], and. [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>PM-10 and PM-2.5 Quarterly Stack Test Requirement for Turbines: Conduct a comprehensive stack test at emission point PT1 and PT2, as applicable, once during every quarter that the turbine is operated to demonstrate compliance with the PM-10 and PM-2.5 emission limits while burning natural gas. Each stack test performed pursuant to REF #1 or #2 above shall satisfy this requirement for the quarter in which that test was performed.</p> <p>If 8 consecutive quarterly stack tests each demonstrate emissions of less than 80 percent of the permit limit, the permittee may request a reduction in the frequency of this stack testing by submitting a significant modification application, along with quarterly test results.</p> <p>Three tests shall be conducted at worst-case permitted operating conditions achievable on the day of testing, under the corresponding test conditions, such as ambient (relative humidity and temperature) conditions, with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The permittee shall submit the turbine load performance curve with the protocol and all data necessary to substantiate the ambient conditions with the test report. All quarterly stack testing shall be performed pursuant to the stack test protocol approved by the Department pursuant to REF #1, unless a modified protocol is approved by the Department thereafter. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing at the approved frequency of once each quarter that equipment is operated.</p> <p>Unless otherwise approved in the stack test protocol or by the Department, each test run shall be 60 minutes in sampling duration. Compliance period shall be as specified in the monitoring requirement for each applicable emission limit. Stack tests shall be conducted for PM-10 and PM-2.5 emissions while combusting natural gas. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack Test - The permittee shall contact BTS at 609-530-4041 to schedule a mutually acceptable test date for the next quarterly stack test within 60 days of performing each stack test.</p> <p>A full stack test report must be submitted to BTS and a certified summary test report, as described in the protocol, 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.</p> <p>The test results shall be reported in lb/hr [N.J.A.C. 7:27-22.18(e)], and. [N.J.A.C. 7:27-22.18(h)]</p>