

**New York State Department of Environmental Conservation**  
**Facility DEC ID: 9563200010**



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 9-5632-00010/00016  
Effective Date: 12/21/1998 Expiration Date: 12/21/2003

Permit Issued To: INDECK ENERGY SERVICES OF SILVER SPRINGS  
UFFALO GROVE RD., SUITE 300  
BUFFALO GROVE, IL 60089-1976

Contact: JON REIMANN  
INDECK ENERGY SERVICES INC  
FALO GROVE ROAD SUITE 300  
BUFFALO GROVE, IL 60089  
(847) 520-3212

Facility: INDECK-SILVER SPRINGS COGENERATION  
1 INDECK DRIVE  
SILVER SPRINGS, NY 14550

Contact: TODD DOBMEIER  
INDECK-SILVER SPRINGS COGENERATION  
1 INDECK DRIVE  
SILVER SPRINGS, NY 14550  
(585) 493-2700

**Description:**

The Indeck-Silver Springs Energy Center (Indeck) is a combined cycle cogeneration plant that produces electricity and steam. Indeck is located at the outskirts of the rural Village of Silver Springs, Wyoming County. Indeck commenced operation in 1991 with a rated generating capacity of 57.9 megawatts (MW). Process steam is provided to Morton Salt, the host facility, and electric power is sold to New York State Electric and Gas, the local utility upon demand.

This facility consists of three Emission Units (EU), Emission Unit S-00001 includes General Electric Frame 6 gas turbine (GT) that produces 40.6 MW at 48 F inlet air temperature. Rated heat input for the GT is approximately 467 million Btu per hour (mmBtu/hr) at full load, while firing natural gas. The GT is fired primarily with natural gas, but uses number 2 fuel oil as backup. Exhaust gases from the GT are reheated by a Coen duct burner (DB), then pass through the heat recovery steam generator (HRSG) and out the stack, emission point (EP) 00001. The HRSG generates steam by absorbing heat from the exhaust gases of the GT and DB. The HRSG provides steam for NOx control to the GT, steam to the condensing steam turbine generator, and process steam to Morton Salt. The duct burner is rated at 84.4 mmBtu/hr, and the heat recovery steam turbine is rated at 17.25 MW. Indeck provides 200 psig process steam to Morton at a rate varying from 0 to 120,000 lb/hr, averaging 30,000 lb/hr. An extractive Continuous Emission Monitoring System (CEMS) manufactured by TSI is used to measure and record



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dry undiluted concentrations of oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), and oxygen (O<sub>2</sub>) at the stack.

Four processes were submitted on the application as part of EU 1. Process 100 was the turbine combusting natural gas without the duct burner firing, process 200 was the turbine combusting number 2 fuel oil without the duct burner firing, process 300 was the duct burner firing natural gas without the turbine firing, and process 400 was the turbine and duct burner both firing natural gas. Process 300 has not been included in the permit because it is not possible to operate the duct burners without the turbine. All conditions and limits associated with process 300 have been included in process 400.

Emission Unit S-00002 is an auxiliary boiler that was designed to supply process steam to Morton Salt when the turbine was not operating. The 170 mmBtu/hr Zurn boiler is currently in cold storage because Morton Salt can provide the needed steam themselves when Indeck's GT is not operating. An extractive CEMS shall be used to measure and record dry undiluted concentrations of NO<sub>x</sub>, CO, O<sub>2</sub> and opacity at this stack, EP 00002. This EU consists of two processes; process 500 is the Zurn boiler firing the primary fuel, natural gas, and process 600 is the boiler firing the backup fuel, number 2 fuel oil. If and when the auxiliary boiler is reactivated the CEMS will need to undergo testing as if the unit was brand new.

Emission Unit S-00003 is an ammonia stripping tower. The facility uses groundwater from this agricultural community to charge its systems. When the condensate returns from Morton Salt it contains ammonia which must be stripped out, process 700, before the water can be discharged into Morton's salt caverns. Ammonia emissions are limited to 9.9 lb/hr at EP 00003. Exempt sources at this facility include unit heaters, two fuel oil tanks, a acid tank, a caustic tank, solvent storage room, and natural gas odorizing process.

This Title V permit includes conditions that originated in the Prevention of Significant Deterioration (PSD) permit issued when the facility was constructed in 1990-91. The conditions in the PSD permit resulted from reviews of 40 CFR 52-A.21(j), Prevention of Significant Deterioration of Air Quality, Best Available Control Technology (BACT); 40 CFR 60-A, General Provisions of New Source Performance Standards (NSPS); 40 CFR 60-Db, NSPS for Industrial-Commercial- Institutional Steam Generating Units (100 to 250 mmBtu/hr); 40 CFR 60-Dc, NSPS for Industrial-Commercial- Institutional Steam Generating Units (10 to 100 mmBtu/hr); and 40 CFR 60-GG, NSPS for Stationary Gas Turbines. When different rules had emission limits for the same contaminate or surrogate the most stringent one was included in the permit. The most stringent emission limits were commonly found in the PSD permit and stated in two different units, one was either part per million (ppm) or lb/mmBtu and the other was lb/hour. Both limits have been incorporated in this permit.

Mr. Constantine Sidamon-Eristoff, of the Environmental Protection Agency (EPA) granted a variance from daily fuel monitoring as required in 40 CFR 60-GG.334(b) on March 18, 1992 in a letter to Mr. Joseph J. Jaskulski of Indeck. This variance required Indeck to monitor the sulfur and nitrogen content of 0 natural gas, which is delivered via pipeline, quarterly. If a exceedance occurs during the quarterly monitoring the facility must notify EPA and the New York State Department of Environmental Conservation (NYSDEC), and then monitor the fuel weekly. The variance allows the facility to monitor the sulfur and nitrogen content of each batch of number 2 fuel oil delivered to the site.

In a June 9, 1998 letter to EPA, Mr. Jim Schneider, of Indeck, requested a variance from monitoring the steam-to-fuel ratio used to control NO<sub>x</sub> production at the turbine, for all its facilities in New York State.





**Notification of Other State Permittee Obligations**

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights under federal or state laws.

**Item B: Permittee's Contractors to Comply with Permit**

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as prescribed for the permittee.

**Item C: Permittee Responsible for Obtaining Other Required Permits**

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

**Item D: No Right to Trespass or Interfere with Riparian Rights**

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



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specification by the Department

Relationship of this Permit to Other Department Orders and Determinations

Applications for Permit Renewals and Modifications

Permit Modifications, Suspensions, and Revocations by the Department

**Facility Level**

Submission of Applications for Permit Modification or Renewal -REGION 9

HEADQUARTERS



**DEC GENERAL CONDITIONS**

\*\*\*\* **General Provisions** \*\*\*\*

**For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions**

**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

**Facility Inspection by the Department**

**Applicable State Requirement: ECL 3-0301.2(g)**

**Item 1.1:**

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

**Item 1.2:**

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

**Item 1.3:**

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**Condition 2: Relationship of this Permit to Other Department Orders and Determinations**  
**Applicable State Requirement: ECL 3-0301.2(m)**

**Item 2.1:**

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

**Condition 3: Applications for Permit Renewals and Modifications**  
**Applicable State Requirement: 6NYCRR 621.13(a)**

**Item 3.1:**

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

**Item 3.2:**

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

**Condition 4: Permit Modifications, Suspensions, and Revocations by the Department**  
**Applicable State Requirement: 6NYCRR 621.14**

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**Item 4.1:**

The Department reserves the right to modify, suspend, or revoke this permit. The grounds for modification, suspension or revocation include:

- a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
- b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
- c) new material information is discovered; or
- d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.

**\*\*\*\* Facility Level \*\*\*\***

**Condition 5: Submission of Applications for Permit Modification or Renewal -REGION 9 HEADQUARTERS**  
**Applicable State Requirement: 6NYCRR 621.5(a)**

**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
Regional Permit Administrator

Region 9 Headquarters  
Division of Environmental Permits  
270 Michigan Avenue  
Buffalo, NY 14203-2999  
(716) 851-7165



**Permit Under the Environmental Conservation Law (ECL)**

**ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT**

**IDENTIFICATION INFORMATION**

Permit Issued To: INDECK ENERGY SERVICES OF SILVER SPRINGS  
600 NORTH BUFFALO GROVE RD., SUITE 300  
UFFALO GROVE, IL 60089-1976

Contact: JON REIMANN  
INDECK ENERGY SERVICES INC  
600 N BUFFALO GROVE ROAD SUITE 300  
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SILVER SPRINGS, NY 14550

Contact: TODD DOBMEIER  
ECK-SILVER SPRINGS COGENERATION  
1 INDECK DRIVE  
SILVER SPRINGS, NY 14550  
(585) 493-2700

Authorized Activity By Standard Industrial Classification Code:  
- ELECTRIC SERVICES

Date: 12/21/1998

Permit Expiration Date: 12/21/2003



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- 13 Proof of Eligibility
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- 26 Severability
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- 35 Compliance Certification
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- 41 Compliance Certification (EU=S-00001)
- 42 Compliance Certification (EU=S-00001)
- 43 Compliance Certification (EU=S-00001)
- 44 Compliance Certification (EU=S-00001)

45 EPA Region 2 address.  
cordkeeping requirements.

7 Excess emissions report.

8 Excess emissions report.

- 49 Facility files for subject sources.
- 50 Opacity standard compliance testing.
- 51 Compliance Certification (EU=S-00001)
- 52 Compliance Certification (EU=S-00001)
- 53 Compliance Certification (EU=S-00001)
- 54 Compliance Certification (EU=S-00001)
- 55 Compliance Certification (EU=S-00001)
- 56 Compliance Certification (EU=S-00001)
- 057 Compliance Certification (EU=S-00001)
- 58 Compliance Certification (EU=S-00001)
- 59 Compliance Certification (EU=S-00001)
- 60 Compliance Certification (EU=S-00001)
- 61 Compliance Certification (EU=S-00001)
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- 63 Compliance Certification (EU=S-00001)
- 64 Compliance Certification (EU=S-00001)
- 65 Compliance Certification (EU=S-00001)
- 66 EPA variance for monitoring sulfur and nitrogen content of fuel.
- 67 Compliance Certification (EU=S-00001)
- 68 Compliance Certification (EU=S-00001)
- 69 Compliance Certification (EU=S-00001)
- 70 Compliance Certification (EU=S-00001)
- 71 Compliance Certification (EU=S-00001)
- 72 Compliance Certification (EU=S-00001)
- 73 Compliance Certification (EU=S-00001)
- 74 Compliance Certification (EU=S-00001)

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- 76 Nitrogen oxides emission rate calculation
- 77 Use of Method 20 for determining NOx and SO2
- 78 Methods for determining compliance with the sulfur content standard
- 79 Requirement for analysis of Nitrogen and Sulfur in fuel
- 80 Compliance Certification (EU=S-00001,EP=00001,Proc=100,ES=S00GT)
- 81 Compliance Certification (EU=S-00001,EP=00001,Proc=100,ES=S00GT)
- 82 Compliance Certification (EU=S-00001,EP=00001,Proc=100,ES=S00GT)
- 83 Compliance Certification (EU=S-00001,EP=00001,Proc=100,ES=S00GT)
- 84 Compliance Certification (EU=S-00001,EP=00001,Proc=100,ES=S00GT)
- 85 Compliance Certification (EU=S-00001,EP=00001,Proc=100,ES=S00GT)



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- 86 Compliance Certification (EU=S-00001,EP=00001,Proc=200)
- 87 Compliance Certification (EU=S-00001,EP=00001,Proc=200,ES=S00GT)
- 88 Compliance Certification (EU=S-00001,EP=00001,Proc=200,ES=S00GT)
- 89 Compliance Certification (EU=S-00001,EP=00001,Proc=200,ES=S00GT)
- 90 Compliance Certification (EU=S-00001,EP=00001,Proc=200,ES=S00GT)
- 91 Compliance Certification (EU=S-00001,EP=00001,Proc=200,ES=S00GT)
- 92 Compliance Certification (EU=S-00001,EP=00001,Proc=200,ES=S00GT)
- 93 Compliance Certification (EU=S-00001,EP=00001,Proc=200,ES=S00GT)
- 94 Compliance Certification (EU=S-00001,EP=00001,Proc=200,ES=S00GT)
- 95 Compliance Certification (EU=S-00001,EP=00001,Proc=200,ES=S00GT)
- 96 Compliance Certification (EU=S-00001,EP=00001,Proc=400)
- 97 Compliance Certification (EU=S-00001,EP=00001,Proc=400)
- 98 Compliance Certification (EU=S-00001,EP=00001,Proc=400)
- 99 Compliance Certification (EU=S-00001,EP=00001,Proc=400)
- 100 Compliance Certification (EU=S-00001,EP=00001,Proc=400,ES=S00DB)
- 101 Compliance Certification (EU=S-00001,EP=00001,Proc=400,ES=S00DB)
- 102 Compliance Certification (EU=S-00001,EP=00001,Proc=400,ES=S00DB)
- 103 Compliance Certification (EU=S-00001,EP=00001,Proc=400,ES=S00DB)
- 104 Compliance Certification (EU=S-00001,EP=00001,Proc=400,ES=S00DB)
- 105 Compliance Certification (EU=S-00001,EP=00001,Proc=400,ES=S00DB)
- 106 Compliance Certification (EU=S-00001,EP=00001,Proc=400,ES=S00DB)
- 107 Compliance Certification (EU=S-00001,EP=00001,Proc=400,ES=S00DB)
- 108 Compliance Certification (EU=S-00002)

09 EPA Region 2 address.  
cordkeeping requirements.

- 1 Excess emissions report.
- 2 Excess emissions report.

- 113 Facility files for subject sources.
- 114 Opacity standard compliance testing.
- 115 Compliance Certification (EU=S-00002)
- 116 Compliance Certification (EU=S-00002)
- 117 Compliance Certification (EU=S-00002)
- 118 Compliance Certification (EU=S-00002)
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- 126 Compliance Certification (EU=S-00002)
- 127 Compliance Certification (EU=S-00002)
- 128 Compliance Certification (EU=S-00002)
- 129 Compliance Certification (EU=S-00002)
- 130 Use of alternative methods for measuring NOx during CEMS downtime
- 131 Compliance Certification (EU=S-00002)
- 132 Compliance Certification (EU=S-00002)
- 133 Compliance Certification (EU=S-00002)



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- 134 Compliance Certification (EU=S-00002)
- 135 Compliance Certification (EU=S-00002)
- 136 Compliance Certification (EU=S-00002)
- 137 Compliance Certification (EU=S-00002,EP=00002,Proc=500)
- 138 Compliance Certification (EU=S-00002,EP=00002,Proc=500)
- 139 Compliance Certification (EU=S-00002,EP=00002,Proc=500)
- 140 Compliance Certification (EU=S-00002,EP=00002,Proc=500)
- 141 Compliance Certification (EU=S-00002,EP=00002,Proc=500)
- 142 Compliance Certification (EU=S-00002,EP=00002,Proc=500)
- 143 Compliance Certification (EU=S-00002,EP=00002,Proc=500)
- 144 Compliance Certification (EU=S-00002,EP=00002,Proc=500)
- 145 Compliance Certification (EU=S-00002,EP=00002,Proc=600)
- 146 Compliance Certification (EU=S-00002,EP=00002,Proc=600)
- 147 Compliance Certification (EU=S-00002,EP=00002,Proc=600)
- 148 Compliance Certification (EU=S-00002,EP=00002,Proc=600)
- 149 Compliance Certification (EU=S-00002,EP=00002,Proc=600)
- 150 Compliance Certification (EU=S-00002,EP=00002,Proc=600)
- 151 Compliance Certification (EU=S-00002,EP=00002,Proc=600)
- 152 Compliance Certification (EU=S-00002,EP=00002,Proc=600)
- 153 Compliance Certification (EU=S-00002,EP=00002,Proc=600)
- 154 Compliance Certification (EU=S-00002,EP=00002,Proc=600)
- 155 Compliance Certification (EU=S-00003)

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**Facility Level**

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7 Air pollution prohibited

158 Diesel truck opacity limitation

159 Idling of diesel trucks limited



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**\*\*\*\* Facility Level \*\*\*\***

**Condition 1: Definitions Applicable To This Permit**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 200.1**

**Item 1.1:**

The definitions found in Parts 200 and 201 apply throughout this permit. Specific definitions used in this meanings include:

1. "Act" refers to the Federal Clean Air Act, 42 U.S.C. Section 7401, et seq., as amended by Public Law number 15, 1990.
2. "Administrator" refers to the Administrator of the United States Environmental Protection Agency or designee.
3. "Department" refers to the New York State Department of Environmental Conservation.

**Condition 2: Sealing**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 200.5**

**Item 2.1:**

(a) The commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the commissioner issued in the case of the violation. Sealing means labelling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits with such source.

(b) No person shall operate any air contamination source sealed by the commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

(c) Unless authorized by the commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section

**Acceptable ambient air quality**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 200.6**

**Item 3.1:**



Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the commissioner shall specify the degree and/or method of emission control required.

**Maintenance of equipment****Effective between the dates of 12/21/1998 and 12/21/2003****Applicable Federal Requirement:****6NYCRR 200.7****Item 4.1:**

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

**Condition 5: Contaminant List****Effective between the dates of 12/21/1998 and 12/21/2003****Applicable Federal Requirement:****6NYCRR 201-1.1(a)****Item 5.1:**

Emissions of the following contaminants are allowed under this permit.

CAS No: 000050-00-0

Name: FORMALDEHYDE

CAS No: 000630-08-0

Name: CARBON MONOXIDE

CAS No: 007439-92-1

Name: LEAD

CAS No: 007439-96-5

Name: MANGANESE

CAS No: 007439-97-6

Name: MERCURY

CAS No: 007440-38-2

Name: ARSENIC

CAS No: 007440-43-9

Name: CADMIUM

CAS No: 007440-47-3

Name: CHROMIUM



CAS No: 007440-62-2  
Name: VANADIUM

CAS No: 007446-09-5  
Name: SULFUR DIOXIDE

CAS No: 007664-41-7  
Name: AMMONIA

CAS No: 007782-49-2  
Name: SELENIUM

CAS No: 0NY059-28-0  
Name: NICKEL (NI 059)

CAS No: 0NY064-29-0  
Name: COPPER (CU 064)

CAS No: 0NY075-00-0  
Name: PARTICULATES

CAS No: 0NY075-00-5  
Name: PM-10

CAS No: 0NY100-00-0  
Name: HAP

CAS No: 0NY210-00-0  
OXIDES OF NITROGEN

CAS No: 0NY998-00-0  
Name: VOC

**Item 5.2:**

The Facility is authorized to emit the regulated contaminants cited in Item 5.1 from the emission units specified in this permit.

**Unpermitted Emission Sources**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**6NYCRR 201-1.2**

**Item 6.1:**

If an existing emission source was subject to the permitting requirements of 6NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:



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- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

**Condition 7: Unavoidable Noncompliance and Violations**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**6NYCRR 201-1.4**

**Item 7.1:**

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit or certificate issued for the corresponding air contamination source. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate

he emission rates.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air

aminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.



**Condition 8: Emergency Defense**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-1.5**

**Item 8.1:**

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An emergency occurred and that the facility owner and/or operator can identify the  
of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated;

(3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other  
in the permit; and

(4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

**Recycling and Salvage**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-1.7**

**Item 9.1:**

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

**Condition 10: Prohibition of Reintroduction of Collected Contaminants to the Air**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-1.8**

**Item 10.1:**

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the indoor atmosphere.

**Condition 11: Public Access to Recordkeeping for Title V facilities  
Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:** 6NYCRR 201-1.10(b)

**Item 11.1:**

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6NYCRR Part 616 - Public Access to records 114(c) of the Act.

**Proof of Eligibility**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:** 6NYCRR 201-3.2(a)

**Item 12.1:**

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

**Proof of Eligibility**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:** 6NYCRR 201-3.3(a)

**Item 13.1:**

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

**Condition 14: Applicable Criteria, Limits, Terms, Conditions and Standards**



**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 14.1:**

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in the permit. This shall include:

- i. Any reporting requirements and operations under an accidental release plan, response plan, and compliance plan as approved as of the date of the permit issuance, or
- ii. Any support documents submitted as a part of the permit application for this facility as accepted and approved as of the date of permit issuance.

Any permit noncompliance constitutes a violation of the federal Clean Air Act and will be grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a renewal application.

**Item 14.2:**

Any document, including reports, required by the federally-enforceable portions of this permit shall contain a certification by the responsible official for this facility as set forth in Section 201-6.3 that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

**Condition 15: Cessation or Reduction of Permitted Activity Not a Defense**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 15.1:**

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

**Compliance Requirements**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 16.1:**

The following information must be included in any required compliance monitoring records and reports:

- i. The date, place and time of sampling or measurements;
- ii. The date(s) analyses were performed;
- iii. The company or entity that performed the analyses;



iv. The analytical techniques or methods used including quality assurance and quality control procedures if required;

v. The results of such analyses including quality assurance data where required; and

vi. The operating conditions as existing at the time of sampling or measurement;

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by the responsible official, consistent with Section 201-6.3 of Part 201.

**Item 16.2:**

Requirements for compliance certification with terms and conditions contained in this facility permit include the following:

i. Compliance certifications shall contain:

- the identification of each term or condition of the permit that is the basis of the certification;

compliance status;

- whether compliance was continuous or intermittent;

- the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;

- such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and

- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

ii. All compliance certifications shall be submitted to the Administrator as well as to the Department.

iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of the effective date of this permit.

**Item 16.3:**

The permittee shall comply with the approved compliance schedule for this permit if such a schedule is a part of this permit. Risk management plans must be submitted to the Administrator if required by Section 112(r) of the Clean Air Act for this facility.

**Item 16.4:**

Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually from the effective date of this permit, or at a more frequent period if specified in the applicable requirement or by the Department elsewhere in this permit. These reports shall be submitted to the Department within 30 days after the end of a reporting period. Such progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

ii. An explanation of why any dates in the schedule of compliance were not or will not be met, and any



preventive or corrective measures adopted.

**erally-Enforceable Requirements**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**6NYCRR 201-6.**

**Item 17.1:**

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under state regulations.

**Condition 18: Fees**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**6NYCRR 201-6.**

**Item 18.1:**

The permittee shall pay the required fees associated with this permit.

**Condition 19: Monitoring, Related Recordkeeping and Reporting Requirements**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**6NYCRR 201-6.**

**Item 19.1:**

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

**Item 19.2:**

To meet the requirements of this facility permit with respect to reporting, the permittee must:

- i. Submit reports of any required monitoring at least every 6 months after the date of permit issuance. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.
- ii. Report promptly (as prescribed under Section 201-1.4 of Part 201) to the Department:
  - deviations from permit requirements, including those attributable to upset conditions,
  - the probable cause of such deviations, and



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- any corrective actions or preventive measures taken.

iii. The permittee must, in the event that emissions of air contaminants exceeding any air emission standard under 6 NYCRR Chapter III occur due to an emergency, comply with the reporting requirements of section 201-1.4 and subdivision 201-6.6(c) of 6 NYCRR Part 201 as soon as possible during normal working hours but in any event not later than two working days after becoming aware that the malfunction occurred. Facilities desiring an affirmative defense for non-compliance with any applicable requirement due to an emergency shall follow the requirements established under the general provisions of Part 201.

iv. Except where the owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, reports on equipment maintenance or start-up/shutdown for the facility need not be submitted to the commissioner's representative unless requested by the Department or required here in this permit.

**Condition 20: Permit Conditions - 40 CFR Part 82, Subpart F -  
Protection of Stratospheric Ozone  
Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 20.1:**

The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR part 82, Subpart F:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.

**Condition 21: Permit Revocation, Modification, Reopening, Reissuance or  
Termination, and Associated Information Submission  
Requirements  
Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 21.1:**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not relieve the permittee from the requirement to comply with any condition contained in this permit.

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 the permit or to determine compliance with the permit. The permittee shall also, on request, furnish the Department with copies of records required to be kept by the permit. Where information is claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

**Condition 22: Permit Shield**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 22.1:**

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield. For those facilities for which a permit shield has been granted, compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

**Condition 23: Property Rights**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 23.1:**

This permit does not convey any property rights of any sort or any exclusive privilege.

**Reopening for Cause**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 24.1:**

This Title V permit shall be reopened and revised under any of the following circumstances:

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

**Item 24.2:**

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

**Item 24.3:**

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

**Condition 25: Right to Inspect**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**6NYCRR 201-6.**

**Item 25.1:**

Upon presentation of credentials and other documents, as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:

- i. Enter upon the permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- iii. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and



iv. As authorized by the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

**Condition 26: Severability**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 26.1:**  
If any federally-enforceable provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

**Emission Unit Definition**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 27.1:**  
The facility is authorized to perform regulated processes under this permit for:  
Emission Unit: S-00001

mission Unit Description:  
MISSION UNIT CONSISTS OF A  
COMBUSTION GAS TURBINE GENERATOR AND HEAT  
RECOVERY STEAM GENERATOR WITH DUCT BURNER  
G INTO ONE EXHAUST STACK.

Building(s): 1

**Item 27.2:**  
The facility is authorized to perform regulated processes under this permit for:  
Emission Unit: S-00002

mission Unit Description:  
THIS UNIT CONSISTS OF AN AUXILIARY BOILER  
G INTO ONE EXHAUST STACK.

Building(s): 1

**Item 27.3:**  
The facility is authorized to perform regulated processes under this permit for:  
Emission Unit: S-00003

mission Unit Description:  
THIS EMISSION UNIT CONSISTS OF ONE  
STRIPPER COLUMN DESIGNED TO REMOVE AMMONIA  
FROM WASTEWATER PRIOR TO DISCHARGE.

Building(s): 1



**Required emissions tests**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**6NYCRR 202-1.1**

**Item 28.1:**

An acceptable report of measured emissions shall be submitted, as may be required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the commissioner within the time stated shall be sufficient reason for the commissioner to suspend or deny an operating permit. Notification and acceptable procedures are

CRR Part 202-1.

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**6NYCRR 202-2.1**

**Item 29.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 29.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year.

g Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

**Recordkeeping requirements**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**6NYCRR 202-2.5**

**Item 30.1:**

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.



**Visible emissions limited.**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 211.3**

**Item 31.1:**

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

**Condition 32: Open Fires Prohibited at Industrial and Commercial Sites**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 215.**

**Item 32.1:**

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 225-1.2(d)**

**Item 33.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):  
CAS No: 007446-09-5 **SULFUR DIOXIDE**

**Item 33.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: **WORK PRACTICE INVOLVING SPECIFIC OPERATIONS**

Monitoring Description:

Under PSD the facility is required to limit fuel sulfur content to 0.27% by weight. This is more stringent than the 1.5% required by this citation - 225-1.2(d).

Work Practice Type: **PARAMETER OF PROCESS MATERIAL**

Material: **NUMBER 2 OIL**

Parameter Monitored: **SULFUR CONTENT**  
Upper Permit Limit: **0.27 percent by weight**  
Reference Test Method: **ASTM D 2880-71**

frequency: **PER DELIVERY**



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Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 34.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 34.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- 1) All records required by this permit shall be in a form suitable for inspection for at least five years.
- 2) Once a year a relative accuracy test audit (RATA) shall be performed and the results shall be reported to NYSDEC in a format of 40 CFR 60 appendix F within 30 days of RATA performance.
- 3) A summary of the emission limits and operating restrictions of this permit must be posted in the control room of the facility and must be plainly visible to the operator of the facility, without obstructions. A copy of this summary shall be submitted to the NYSDEC and is

subject NYSDEC approval.

Frequency: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 35.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 35.2:**

Compliance Certification shall include the following monitoring:



Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Total annual facility fuel oil use shall not exceed 7,905,900 gallons based on a daily rolling basis.

Work Practice Type: PROCESS MATERIAL THRUPUT

Material: NUMBER 2 OIL

Upper Permit Limit: 7.9059 million gallons

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 36.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

**Item 36.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Sulfur content of fuel burned at the facility shall not exceed 0.27% by weight. The monitoring plan is listed in citation 40 CFR 60.334(b)(2).

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Material: NATURAL GAS

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.27 percent by weight

Reference Test Method: ASTM D 1072-80

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)



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Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 37.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

**Item 37.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

This facility accepted a limit for sulfur in fuel oil of 0.27% as part of its Prevention of Significant Deterioration of Air Quality (PSD) permit. This limit is more stringent than the 40 CFR 60.333(b) limit of 0.8%, of 40 CFR 60.42b(j) and 60.42c(d) limits of 0.5%, and 6 NYCRR 225-1.2(d) limit of 1.5%, therefore no owner or operator subject to the provisions of this subpart shall burn in any stationary gas turbine, duct burner or boiler any fuel which contains sulfur in excess of 0.27% by weight.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.27 percent by weight

Reference Test Method: ASTM D 2880-71

Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**\*\*\*\* Emission Unit Level \*\*\*\***



**Condition 38: Emission Point Definition By Emission Unit**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 38.1:**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: S-00001

Emission Point: 00001

Height (Diameter (in.): 138

NYTMN (km.): 4727.02 NYTME (km.): 247.729 Building: 1

**Item 38.2:**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: S-00002

Emission Point: 00002

Height (ft.): 110 Diameter (in.): 52

NYTMN (km.): 4727.02 NYTME (km.): 247.729 Building: 1

**Item 38.3:**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: S-00003

Emission Point: 00003

Height (ft.): 40 Diameter (in.): 12

NYTMN (km.): 4727.02 NYTME (km.): 247.729 Building: 1

**Condition 39: Process Definition By Emission Unit**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

d

**Applicable Federal Requirement: 6NYCRR 201-6.**

**Item 39.1:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00001

Process: 100

Source Classification Code: 2-02-002-03

Process Description:

GE FRAME 6 GAS TURBINE FIRING ON NATURAL

GAS. NO DUCT FIRING.

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Emission Source/Control: S00GT - Control  
Control Type: STEAM OR WATER INJECTION

**Item 39.2:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00001  
Process: 200 Source Classification Code: 2-02-002-03  
Process Description:  
GE FRAME 6 GAS TURBINE FIRING ON NUMBER 2  
TILLATE OIL. NO DUCT FIRING.

Emission Source/Control: S00GT - Control  
Control Type: STEAM OR WATER INJECTION

**Item 39.3:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00001  
Process: 400 Source Classification Code: 2-02-002-03  
Process Description:  
GE FRAME 6 GAS TURBINE AND DUCT BURNER  
TH FIRING ON NATURAL GAS.

Emission Source/Control: S00DB - Combustion  
Design Capacity: 84.4 million Btu per hour

Emission Source/Control: S00GT - Control  
Control Type: STEAM OR WATER INJECTION

**Item 39.4:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00002  
Process: 500 Source Classification Code: 1-01-007-01  
Process Description: THE AUXILIARY BOILER BURNING NATURAL GAS.

Emission Source/Control: S0AUX - Combustion  
Design Capacity: 170 million Btu per hour

**Item 39.5:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00002  
Process: 600 Source Classification Code: 1-01-007-01  
Process Description:  
THE AUXILIARY BOILER BURNING NUMBER 2  
DISTILLATE OIL.



Emission Source/Control: S0AUX - Combustion  
Design Capacity: 170 million Btu per hour

**Item 39.6:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00003  
Process: 700 Source Classification Code: 3-01-820-01  
Process Description:  
THE STRIPPING COLUMN OPERATED BY BATCH  
PROCESS, REMOVING AMMONIA FROM WASTEWATER  
ISCHARGE TO MORTON SALT.

Emission Source/Control: S0STP - Process  
Design Capacity: 9.9 pounds per hour

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 227-1.3(a)(1)**

**Item 40.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 40.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

- 1.) No person shall operate a stationary combustion installation which emits smoke the shade or appearance of which is equal to or greater than Number 2 on the Ringelmann Chart, or 40 percent opacity for any time period.
- 2.) There are no NSPS limits for opacity for the turbine or duct burner.
- 3.) In the event the facility experiences operational problems which could result in smoke, a stack observation shall be made to determine whether there are any visible emission. In the event visible emissions exist, the facility shall promptly report to the Department by FAX or telephone, the nature of the problem, when the problem



occured, the duration of the emission and an estimate of the emission opacity range.

4.) Any visible stack emissions reported by FAX or telephone shall also be reported to the Department as part of the quarterly report.

Parameter Monitored: OPACITY  
Permit Limit: 40 percent

Reference Test Method: EPA Method 9  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION  
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 6NYCRR 227-1.3(a)(2)**

**Item 41.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 41.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

- 1.) No person shall operate a stationary combustion installation which emits smoke the shade or appearance of which is equal to or greater than Number 1 on the Ringelmann Chart, or 20 percent opacity, for a period of three or more minutes during any continuous 60-minute period.
- 2.) There are no NSPS limits for opacity for the turbine or duct burner.
- 3.) In the event the facility experiences operational problems which could result in smoke, a stack observation shall be made to determine whether there are any visible



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emission. In the event visible emissions exist, the facility shall promptly report to the Department by FAX or telephone, the nature of the problem, when the problem occurred, the duration of the emission and an estimate of the emission opacity range.

4.) Any visible stack emissions reported by FAX or telephone shall also be reported to the Department as part of the quarterly report.

Parameter Monitored: OPACITY  
Permit Limit: 20 percent

Reference Test Method: Pt 60 EPA Method 9  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 42.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 42.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The gas turbine may not operate below 80% load except during periods of startup and shutdown. 80% load corresponds to 30.0 MW (gas firing, @ 48.0 deg F). The attached figure 1 correlates this limit to the current turbine inlet temperature.

Parameter Monitored: ELECTRICAL OUTPUT

Permit Limit: 80 percent  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)



Reports due 30 days after the reporting period.  
Initial report is due 1/30/99.  
Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 43.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 43.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

1) The continuous emission monitoring systems (CEMS) shall meet the requirements of 40 CFR 60 appendix B and F, the Northeast States for Coordinated Air Use Management (NESCAUM) guidance document for CEMS (September 1990), and NYSDEC Air Guide-34.

2) All emission limits are based on heat input corresponding to the higher heating value (HHV) of the fuel burned. The emission limits for this emission unit apply at all loads of operation, except during periods of malfunctions, and during startup and shutdown; not to exceed three (3) hours per occurrence.

3) Excess emissions shall be identified as any one-hour block period during which the average emissions of NO<sub>x</sub> or CO, as measured by the CEM system, exceeds the corresponding mass or concentration emission limits set forth in this permit.

4) For the purpose of this permit, excess emissions indicated by the CEMS for one hour block periods other than startup, shutdowns, malfunctions (as stated in 6 NYCRR 201-1.4) and CEM calibrations may be considered violations of the applicable emission limits.

5) The temperature of the inlet air to the turbine, after the inlet air cooling system, and the ambient air temperature must be measured and recorded. Such measurements must be accurate within +/- 3 degrees



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Fahrenheit.

6) The turbine shall only fire natural gas or #2 fuel oil.

7)The duct burner shall only fire natural gas.

8) The stack gas volumetric flow rate must be continuously calculated and recorded using the methodology specified in the CEM monitoring plans.

9) The turbine may not operate simultaneously with the auxiliary boiler except during periods of startup and shutdown.

10) All emission limits are based on an one hour average.

requery: CONTINUOUS

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 44.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 44.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall install, calibrate, maintain and operate a continuous emission monitoring system in the gas turbine/duct burner exhaust stack to measure oxygen. Oxygen measurements are used to adjust NOx and CO measurements to a reference condition, 15% oxygen.

requery: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**EPA Region 2 address.**



**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.4, NSPS Subpart A**

**Item 45.1:**

Condition applies to Emission Unit: S-00001

**Item 45.2:**

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance  
USEPA Region 2

290 Broadway, 21st Floor  
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC  
Bureau of Enforcement and Compliance Assurance  
50 Wolf Road

Albany, NY 12233-3254

**Recordkeeping requirements.**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.7(b), NSPS Subpart A**

**Item 46.1:**

Condition applies to Emission Unit: S-00001

**Item 46.2:**

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

**Excess emissions report.**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.7(c), NSPS Subpart A**

**Item 47.1:**

Condition applies to Emission Unit: S-00001

**Item 47.2:**

Affected owners or operators shall submit an excess emissions report quarterly (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be post marked no later than 30 days after each calendar quarter (or as appropriate), and shall contain the

following information:

- 1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;
- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 3) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero span checks and the nature of the system repairs or adjustments; and
- 4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be provided in the report.

**Excess emissions report.**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.7(d), NSPS Subpart A****Item 48.1:**

Condition applies to Emission Unit: S-00001

**Item 48.2:**

An excess emissions report and/or a summary report, for each pollutant monitored, shall be sent to the Administrator quarterly (or as required), in the form prescribed in Figure 1 of subdivision 60.7(d).

**Condition 49: Facility files for subject sources.**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.7(f), NSPS Subpart A****Item 49.1:**

Condition applies to Emission Unit: S-00001

**Item 49.2:**

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

**Condition 50: Opacity standard compliance testing.**



Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement: 40CFR 60.11, NSPS Subpart A**

**Item 50.1:**

Condition applies to Emission Unit: S-00001

**Item 50.2:**

The following conditions shall be used to determine compliance with the opacity standards:

- 1) observations shall be conducted in accordance with Reference Method 9, in Appendix A or this Part 40 CFR 60 (or an equivalent method approved by the Administrator including continuous opacity monitors);
- 2) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and
- 3) all other applicable conditions cited in section 60.11 of this part.

**Compliance Certification**

Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement: 40CFR 60.13(a), NSPS Subpart A**

**Item 51.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 51.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As referenced in 40 CFR 60.13(a) Subpart A, the Quality Control Requirements from Part 60 appendix F section 3 follows:

For gas CEMS used for compliance determination, each source owner or operator must develop and implement a QC program. As a minimum, each QC program must include written procedures which should describe in detail, complete, step-by-step procedures and operations for each

of the following activities:

1. Calibration of CEMS.
2. CD determination and adjustment of CEMS.
3. Preventive maintenance of CEMS (including spare parts inventory).



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4. Data recording, calculations, and reporting.
5. Accuracy audit procedures including sampling and analysis methods.
6. Program of corrective action for malfunctioning CEMS.

Whenever excessive inaccuracies occur for two consecutive quarters, the source owner or operator must revise the current written procedures or modify or replace the CEMS to correct the deficiency causing the excessive inaccuracies. These written procedures must be kept on record and available for inspection by the enforcement agency.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.13(a), NSPS Subpart A**

**Item 52.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 52.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As referenced in 40 CFR 60.13(a) Subpart A, the Reporting Requirements of Part 60 appendix F section 7 follow:

CEMS Reporting Requirements:

On a quarterly basis the facility shall report for each CEMS the accuracy results from 40CFR60 Appendix F, Section 6 and the Calibration Drift (CD) assessment results from Section 4, report the drift and accuracy information as a Data Assessment Report (DAR), and include one copy of this DAR for each quarterly audit with the report of emissions required under the applicable subparts of this part. As a minimum, the DAR must contain the following information in a format consistent with Air Guide 34:



1. Source owner or operator name and address.
2. Identification and location of monitors in the CEMS.
3. Manufacturer and model number of each monitor in the CEMS.
4. Assessment of CEMS data accuracy and date of assessment as determined by a RATA (Relative Accuracy Test Audit), RAA (Relative Accuracy Audit), or CGA (Cylinder Gas Audit) described in Section 5 including the RA (Relative Accuracy) for the RATA, the A (Accuracy) for the RAA or CGA, the RM (Reference Method) results, the cylinder gases certified values, the CEMS responses, and the calculations results as defined in Section 6. If the accuracy audit results show the CEMS to be out-of-control, the CEMS operator shall report both the audit results showing the CEMS to be out-of-control and the results of the audit following corrective action showing the CEMS to be operating within specifications.
5. Results from EPA performance audit samples described in

Section 5 and the applicable RM's.

6. Summary of all corrective actions taken when CEMS was determined out-of-control, as described in Sections 4 and 5.
7. RATA must be conducted at least once every four calendar quarters, RAA may be conducted three of four quarters but in no more than three quarter in succession.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.13(a), NSPS Subpart A**

**Item 53.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 53.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



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Monitoring Description:

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For the purposes of this section, all continuous monitoring systems required under applicable subparts shall be subject to the provisions of this section upon promulgation of performance specifications for continuous monitoring systems under appendix B to this part and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, appendix F to this part, unless otherwise specified in an applicable subpart or by the Administrator. Appendix F is

applicable December 4, 1987.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 6 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.13(e), NSPS Subpart A**

**Item 54.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 54.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under 40CFR60.13(d), all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:

(1) All continuous monitoring systems referenced by 40CFR60.13(c) for measuring opacity of emissions shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

(2) All continuous monitoring systems referenced by 40CFR60.13(c) for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each

successive 15-minute period.



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Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 6 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.13(h), NSPS Subpart A**

**Item 55.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 55.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in §60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O<sub>2</sub> or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 6 calendar month(s).



**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.42c(d), NSPS Subpart Dc**

**Item 56.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 56.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Under PSD the facility is required to limit fuel sulfur content to 0.27% by weight. This is more stringent than 0.5% required by this section - 60.42c(d).

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Permit Limit: 0.27 percent

Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**40CFR 60.46c(d)(2), NSPS Subpart Dc**

**Item 57.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE



**Item 57.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

As an alternative to operating a CEMs at the inlet to the SO2 control device (or outlet of the steam generating unit if no SO2 control device is used) as required under paragraph §60.46c (a), an owner or operator may elect to determine the average SO2 emission rate by sampling fuel prior to combustion.

As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted.

Parameter Monitored: SULFUR CONTENT  
Upper Permit Limit: .027 percent by weight

Test Method: Method 19

Monitoring Frequency: AS REQUIRED - SEE MONITORING  
DESCRIPTION

Averaging Method: 30-DAY ROLLING AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirements: 40CFR 60.46c(e), NSPS Subpart Dc**

**Item 58.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 58.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall demonstrate compliance with the sulfur in fuel limits of 60.42c(d) based on fuel supplier certification as described under §60.48c(f) (1), which



requires the supplier to submit a statement that the oil meets the definition of distillate oil in 60.41c.

frequency: PER DELIVERY

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

### **Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

### **Applicable Federal Requirements 40CFR 60.48c(e), NSPS Subpart Dc**

#### **Item 59.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

#### **Item 59.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO<sub>2</sub> emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall keep records and submit quarterly reports as required under 60.48c(d), including the following information, as applicable.

- 1) Calendar dates covered in the reporting period.
- 2) Each 30-day average SO<sub>2</sub> emission rate (ng/J or lb/million Btu), or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period in the quarter; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.
- 3) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described in 60.48c(f)(1), (2), or (3), as applicable. In addition to records of fuel supplier certifications, the quarterly report shall include a certified statement



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signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the quarter.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement:**

40CFR 60.48c(f)(1), NSPS Subpart Dc

**Item 60.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 60.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Fuel supplier certification shall include the following information for distillate oil:

- i) The name of the oil supplier, and
- ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c. 60-Dc 41c defines distillate oil as fuel that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, A standard

Specification for Fuel Oils.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).



**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.48c(g), NSPS Subpart Dc**

**Item 61.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 61.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

Monitoring Frequency: DAILY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.332(a)(1), NSPS Subpart GG**

**Item 62.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: ONY210-00-0 OXIDES OF NITROGEN

**Item 62.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE ONCE PER PERMIT TERM

1.) Emissions of oxides of nitrogen (NO<sub>x</sub>) from the gas turbine alone while firing natural gas shall not exceed 32 ppmv (dry, corrected to 15% O<sub>2</sub>).



2.) The facility shall conduct periodic monitoring by conducting a stack emission test for NOx once per permit term using the continuous emission monitoring system (CEMS) equipment already on the stack. Testing shall include the procedures and methods in 60.335(c).

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is more stringent than the limit established under 40 CFR 60.332(a)(1).

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 32 parts per million by volume (dry, corrected to 15% O2)  
Reference Test Method: EPA Method 20  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Mode: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

### Applicable Federal Requirements: 40 CFR 60.332(b), NSPS Subpart GG

#### Item 63.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: ONY210-00-0 OXIDES OF NITROGEN

#### Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Electric utility stationary gas turbines with a heat input at peak load greater than 107.2 gigajoules per hour (100 million Btu/hour) based on the lower heating value of the fuel fired shall comply with the provisions of paragraph 40 CFR 60.332(a)(1) of this section.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



**New York State Department of Environmental Conservation**  
**32-00010/00016** **Facility DEC ID: 9563200010**

Reports due 30 days after the reporting period.  
 Initial report is due 1/30/99.  
 Subsequent reports are due every 6 calendar month(s).

**Compliance Certification**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.333(b), NSPS Subpart GG**

**Item 64.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):  
 CAS No: 007446-09-5 **SULFUR DIOXIDE**

**Item 64.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Under PSD the facility is required to limit fuel sulfur content to 0.27% by weight. This is more stringent than the 0.8 limit required by this section - 60.333(b).

i547 Work Practice Type: PARAMETER OF PROCESS MATERIAL  
 Material: NUMBER 2 OIL

Parameter Monitored: SULFUR DIOXIDE  
 Upper Permit Limit: 0.27 parts per million by volume

(dry, corrected to 15% O2)

Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.334(a), NSPS Subpart GG**

**Item 65.1:**  
 The Compliance Certification activity will be performed for:



Emission Unit: S-00001

**Item 65.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of any stationary gas turbine subject to the provisions of this subpart and using water injection to control NOx emissions shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. This system shall be accurate to within  $\pm 5.0$  percent and shall be approved by the Administrator.

frequency: CONTINUOUS

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Condition 66: EPA variance for monitoring sulfur and nitrogen content of fuel.**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.334(b), NSPS Subpart GG**

**Item 66.1:**

Condition applies to Emission Unit: S-00001

**Item 66.2:**

The facility has been granted a variance for an alternate schedule for monitoring sulfur and nitrogen in fuel burned in the turbine. The details and specific conditions are contained in EPA letter dated March 18, 1992, a copy of which is contained in the permit application. See citations 60.334(b)(1) and (2).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**40CFR 60.334(b)(1), NSPS Subpart GG**

**Item 67.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001



**New York State Department of Environmental Conservation**

**32-00010/00016**

**Facility DEC ID: 9563200010**

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

**Item 67.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

While using fuel oil:

A. Monitoring of sulfur content of number 2 fuel oil will be performed on a batch basis. Each time oil is delivered to the facility by multiple trucks, a sample will be taken from each truck if the trucks contain oil from different batches from the supplier. If the trucks contain oil from the same batch, then only one sample from one truck will be necessary.

B. Records of fuel analysis and fuel supply pertinent to this alternative oil monitoring schedule shall be retained for a period of 5 years and be available for inspection by personnel of federal and state air pollution control agencies.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Permit Limit: 0.27 percent

Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**40CFR 60.334(b)(1), NSPS Subpart GG**

**Item 68.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):



**New York State Department of Environmental Conservation**  
**32-00010/00016** **Facility DEC ID: 9563200010**

CAS No: 0NY210-00-0 **OXIDES OF NITROGEN**

**Item 68.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

While using fuel oil:

A. Monitoring of nitrogen content of number 2 fuel oil will be performed on a batch basis. Each time oil is delivered to the facility by multiple trucks, a sample will be taken from each truck if the trucks contain oil from different batches from the supplier. If the trucks contain oil from the same batch, then only one sample from

one truck will be necessary.

B. Records of fuel analysis and fuel supply pertinent to this alternative oil monitoring schedule shall be retained for a period of 5 years and be available for inspection by personnel of federal and state air pollution control agencies.

Frequency: PER DELIVERY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**40CFR 60.334(b)(2), NSPS Subpart GG**

**Item 69.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 007446-09-5 **SULFUR DIOXIDE**

**Item 69.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:



While using natural gas:

A. For the first twelve (12) months after the receipt of the March 18, 1992 letter from EPA Regional Administrator, Mr. Constantine Sidamon-Eristoff, fuel sulfur content monitoring shall be conducted monthly. If fuel sulfur content shows consistent compliance with 40 CFR 60.333, then sulfur monitoring shall be conducted once every three (3) months (quarterly).

B. Prior to going from a monthly fuel sulfur content monitoring schedule to a quarterly monitoring schedule as indicated in Item A above, the applicant must request and receive approval from EPA. The request to EPA must include a report showing the fuel sulfur content recorded during the preceding twelve (12) consecutive months of monthly monitoring.

C. If any fuel sulfur analysis, as required in Item A above, indicates noncompliance with 40 CFR 60.333 at any time, the NYSDEC and EPA must be notified within fifteen (15) calendar days of this occurrence(s). The EPA will then re-evaluate the custom schedule and will notify you of required changes. Fuel sulfur monitoring shall be conducted weekly during the period when this custom schedule is being re-examined.

D. Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of five (5) years, and shall be available for inspection by personnel of federal, state, and local air pollution control agencies.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Material: NATURAL GAS

Parameter Monitored: SULFUR CONTENT

Permit Limit: 0.27 percent

Reference Test Method: ASTM D 1072-80

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

### **Compliance Certification**



**New York State Department of Environmental Conservation**

32-00010/00016

Facility DEC ID: 9563200010

Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement:**

**40CFR 60.334(b)(2), NSPS Subpart GG**

**Item 70.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

**Item 70.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

While using natural gas:

A. Monitoring of fuel nitrogen content shall be conducted monthly.

B. If any fuel sulfur analysis, as required, indicates noncompliance with 40 CFR 60.333 at any time, the NYSDEC and EPA must be notified within fifteen (15) calendar days of this occurrence(s). The EPA will then re-evaluate the custom schedule and will notify you of required changes. Fuel nitrogen monitoring shall be conducted weekly during the period when this custom schedule is being re-examined.

C. Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of five (5) years, and shall be available for inspection by personnel of federal, state, and local air pollution control agencies.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement:**

**40CFR 60.334(c)(1), NSPS Subpart GG**



**Item 71.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):  
CAS No: 0NY210-00-0

OXIDES OF NITROGEN

**Item 71.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

For the purpose of reports required under §60.7(c),  
periods of excess emissions that shall be reported are  
defined as follows:

(1) Nitrogen oxides. Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with §60.332 by the performance test required in §60.8 or any period during which the fuel-bound nitrogen of the fuel is greater than the maximum nitrogen content allowed by the fuel-bound nitrogen allowance used during the performance test required in §60.8. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, and nitrogen content of the fuel during the period of excess emissions, and the graphs or figures developed under §60.335(a).

(2) On June 9, 1998 Indeck requested a variance from the above reporting requirement. The Environmental Protection Agency (EPA) sent the firm a response offering three options the facility could implement instead of water to fuel monitoring. Indeck responded on October 19, 1998 selecting option 1. Option 1 requires the facility to comply with the PSD limits for NO<sub>x</sub> contained in this permit for both gas and oil firing and to measure NO<sub>x</sub> emissions using a continuous emissions monitoring system. Exceeding this limit would result in a violation of NO<sub>x</sub> limits for the turbine and duct burner. Upon EPA approval of this variance, the facility will not be subject to the water to fuel ratio limit contained in this condition.

Parameter Monitored: STEAM/FUEL VOLUMETRIC FLOW RATE RATIO



**New York State Department of Environmental Conservation**

**32-00010/00016**

**Facility DEC ID: 9563200010**

Lower Permit Limit: 0.92 pounds of steam per pound of fuel

frequency: CONTINUOUS  
mode: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**40CFR 60.334(c)(3), NSPS Subpart GG**

**Item 72.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 72.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As stated in 40CFR60.332(f), stationary gas turbines using water or steam injection for control of NOx emissions are exempt from 40CFR60.332(a) when ice fog is deemed a traffic hazard by the owner or operator of the gas turbine.

A quarterly written report that includes a record of each period during which this exemption was invoked shall be submitted to the Administrator. For each period, the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. All quarterly reports shall be postmarked by the 30th day following the end of

each calendar quarter.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**



Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement:** 40CFR 60.334(c)(4), NSPS Subpart GG

**Item 73.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 73.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As stated in 40CFR60.332(k), stationary gas turbines with a heat input greater than or equal to 10.7 gigajoules per hour (10 million Btu/hour) when firing natural gas, are exempt from the NO<sub>x</sub> standard for peak load conditions found in 40CFR60.332(a)(2), when being fired with an emergency fuel.

A record of each period during which emergency fuel is fired shall be included in the excess emissions and monitoring performance report required by 40CFR60.7(c).

For each period: the type, reasons, and duration of the firing of the emergency fuel shall be reported.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement:** 40CFR 60.335(a), NSPS Subpart GG

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**Item 74.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):  
CAS No: 0NY210-00-0

OXIDES OF NITROGEN



**Item 74.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To compute nitrogen oxide emissions, the owner or operator shall use analytical methods and procedures that are accurate to within 5 percent and are approved by the Administrator to determine nitrogen content of the fuel being fired.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 6 calendar month(s).

**Acceptable test methods**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.335(b), NSPS Subpart GG**

**Item 75.1:**

Condition applies to Emission Unit: S-00001

**Item 75.2:**

In conducting the performance test required in 40 CFR 60.8, the owner or operator shall use the reference methods in Appendix A of 40 CFR 60 or other methods and procedures as specified in 40 CFR 60.335, except as provided for in 40 CFR 60.8(b).

**Condition 76: Nitrogen oxides emission rate calculation**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**40CFR 60.335(c)(1), NSPS Subpart GG**

**Item 76.1:**

Condition applies to Emission Unit: S-00001

**Item 76.2:**

The owner or operator shall determine compliance with the nitrogen oxide (NO<sub>x</sub>) standard using the following equation:

$$NO_x = (NO_{x0}) \left( \frac{Pr}{Po} \right)^{0.5} e^{19(Ho - 0.00633)} (288 \text{ degrees K}/Ta)^{1.53}$$

Where:

NO<sub>x</sub> = emission rate of NO<sub>x</sub> at 15 % O<sub>2</sub> and ISO standard ambient conditions, volume percent.

NO<sub>x0</sub> = observed NO<sub>x</sub> concentration, ppm by volume.

Pr = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg.



Po=observed combustor inlet absolute pressure at test, mm Hg.

Ho=observed humidity of ambient air, g H<sub>2</sub>O/g air.

e= 2.718

temperature, degrees K.

**Condition 77: Use of Method 20 for determining NO<sub>x</sub> and SO<sub>2</sub>**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.335(c)(3), NSPS Subpart GG**

**Item 77.1:**

Condition applies to Emission Unit: S-00001

**Item 77.2:**

Method 20 shall be used for determining the nitrogen oxide, sulfur dioxide, and oxygen concentrations. The span values shall be 300 ppm of nitrogen oxide and 21 percent oxygen. The NO<sub>x</sub> emissions shall be determined at each of the following loads; 30, 50, 75, and 100 percent.

**Condition 78: Methods for determining compliance with the sulfur content standard**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.335(d), NSPS Subpart GG**

**Item 78.1:**

Condition applies to Emission Unit: S-00001

**Item 78.2:**

The owner or operator shall determine compliance with the sulfur content standard in 40 CFR 60.335(b) as follows:

ASTM D 2880-71 for liquid fuels and ASTM 1072-80, D 3031-81, D 4084-82, or D 3246-81 for gaseous fuels.

**Condition 79: Requirement for analysis of Nitrogen and Sulfur in fuel**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.335(e), NSPS Subpart GG**

**Item 79.1:**

Condition applies to Emission Unit: S-00001

**Item 79.2:**

To meet the requirements 40 CFR 60.334(b), the owner or operator shall use methods specified in 40 CFR 335(a) and (d) to determine the nitrogen and sulfur content of fuels being burned. The analysis may be performed by the owner or operator, a service contractor, the fuel vendor, or any qualified agency.











The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
PrEmission Source: S00GT

Regulated Contaminant(s):  
CAS No: 0NY075-00-0 PARTICULATES

**Item 84.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING NATURAL GAS. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

- 1.) Particulate emissions from the gas turbine alone while firing natural gas shall not exceed 2.5 lb/hr.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.

3.) The facility shall submit a stack testing protocol for Department approval.

- 4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

Monitored: PARTICULATES

Upper Permit Limit: 2.5 pounds per hour  
Reference Test Method: METHOD 5 OR 17  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Mode: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

Applicable Federal Requirement: 40CFR 52.21(j), Subpart A

**Item 85.1:**  
The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001



**New York State Department of Environmental Conservation**

**32-00010/00016**

**Facility DEC ID: 9563200010**

PrEmission Source: S00GT

Regulated Contaminant(s):

CAS No: 000630-08-0

CARBON MONOXIDE

**Item 85.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING NARURAL GAS ONCE PER PERMIT TERM

1.) Emissions of carbon monoxide (CO) from the gas turbine alone while firing natural gas shall not exceed 40 ppmv (dry, corrected to 15% O2).

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for CO once per permit term using the continuous emission monitoring system (CEMS) equipment already on the stack.

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

Manufacturer Name/Model Number: TSI

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 40 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: EPA Method 10

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

hod: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 86.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Process: 200



**New York State Department of Environmental Conservation**

**32-00010/00016**

**Facility DEC ID: 9563200010**

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

**Item 86.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The number of hours of operation of the turbine and the auxillary boiler, each taken separately, shall not exceed 2190 per year while firing number 2 fuel oil. This shall be calculated by summing the hours of operation of the gas turbine while firing number 2 fuel oil and the hours of operation the auxillary boiler while firing number 2 fuel oil.

Work Practice Type: HOURS PER YEAR OPERATION

ppper Permit Limit: 2190

ring Frequency: HOURLY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**6NYCRR 227-1.2(a)(1)**

**Item 87.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

PrEmission Source: S00GT

Regulated Contaminant(s):

CAS No: 0NY075-00-0

PARTICULATES

**Item 87.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE GAS TURBINE WHILE FIRING NUMBER 2 DISTILLATE OIL AT THE REQUEST OF THE DEPARTMENT.



1.) Particulate emissions from the auxillary boiler while firing number 2 oil shall not exceed 0.041 lb./mmBtu.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21( j).

nitroed: PARTICULATES

Upper Permit Limit: 0.041 pounds per million Btus  
Reference Test Method: EPA Method 5  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

hod: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

Applicable Federal Requirement: 40CFR 52.21(j), Subpart A

#### Item 88.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
PrEmission Source: S00GT

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

#### Item 88.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION OF GAS TURBINE ALONE WHILE FIRING WHILE G NUMBER 2 DISTILLATE OIL.

1.) Emissions of carbon monoxide (CO) from the gas turbine alone while firing Number 2 distillate oil shall not exceed the values from the attached performance curves



( Figure # 2 ) under full load for the corresponding combustion air inlet temperature. The CO limit of 40.0 lb/hr corresponds to an inlet air temperature of 47.5 degrees F.

2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 2 in 40 CFR 60 Appendix B.

3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.

4.) These limits were established to comply with Prevention of Significant Deterioration (PSD) BACT requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 40.0 pounds per hour  
Reference Test Method: 40CFR60 Append. B

frequency: CONTINUOUS  
mode: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

Applicable Federal Requirement: 40CFR 52.21(j), Subpart A

#### Item 89.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
PreEmission Source: S00GT

Regulated Contaminant(s):  
CAS No: 0NY075-00-5

PM-10

#### Item 89.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

OPERATION OF GAS TURBINE ALONE WHILE FIRING WHILE FIRING  
NUMBER 2 DISTILLATE OIL. STACK TESTING REQUIRED AT THE



**New York State Department of Environmental Conservation**

32-00010/00016

Facility DEC ID: 9563200010

QUEST OF THE DEPARTMENT.

1.) PM-10 particulate emissions from the gas turbine alone while firing number 2 distillate oil shall not exceed 17.0 lb/hr.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

Parameter Monitored: PM-10

Upper Permit Limit: 17.0 pounds per hour  
Reference Test Method: CFR51AppM201/202  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Mode: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 90.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001      Emission Point: 00001  
PrEmission Source: S00GT

Regulated Contaminant(s):

CAS No: 0NY075-00-0      PARTICULATES

**Item 90.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

OPERATION OF GAS TURBINE ALONE WHILE FIRING NUMBER 2 DISTILLATE OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

1.) Particulate emissions from the gas turbine alone





**New York State Department of Environmental Conservation**

32-00010/00016

Facility DEC ID: 9563200010

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

monitored: PARTICULATES

Upper Permit Limit: 0.041 pounds per million Btus  
Reference Test Method: METHOD 5 OR 17  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 92.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
PrEmission Source: S00GT

Regulated Contaminant(s):

CAS No: ONY075-00-5 PM-10

**Item 92.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

OPERATION OF GAS TURBINE ALONE WHILE FIRING NUMBER 2 DISTILLATE OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

1.) PM-10 particulate emissions from the gas turbine alone while firing number 2 distillate oil shall not exceed 0.041 lb/mmBtu.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.



3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

Parameter Monitored: PM-10

Upper Permit Limit: 0.041 pounds per million Btus  
Reference Test Method: CFR51AppM201/202  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Mode: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Compliance Certification**

Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 93.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
PrEmission Source: S00GT

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 93.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION OF GAS TURBINE ALONE WHILE FIRING NUMBER 2 DISTILLATE OIL.

1.) Emissions of carbon monoxide (CO) from the gas turbine alone while firing Number 2 distillate oil shall not exceed 40 ppmv (dry, corrected to 15% O<sub>2</sub>).

2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification

2 in 40 CFR 60 Appendix B.

3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.



4.) These limits were established to comply with Prevention of Significant Deterioration (PSD) BACT requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 40 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)  
Reference Test Method: 40CFR60 Append. B

Frequency: CONTINUOUS  
Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

#### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

Applicable Federal Requirement: 40CFR 52.21(j), Subpart A

#### Item 94.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
PreEmission Source: S00GT

Regulated Contaminant(s):  
CAS No: 0NY210-00-0

OXIDES OF NITROGEN

#### Item 94.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION OF GAS TURBINE ALONE WHILE FIRING NUMBER 2 DISTILLATE OIL.

1.) Emissions of oxides of nitrogen (NO<sub>x</sub>) from the gas turbine alone while firing Number 2 distillate oil shall not exceed 54 ppmv (dry corrected to 15% O<sub>2</sub>).

2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification

2 in 40 CFR 60 Appendix B.

3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.



4.) These limits were established to comply with Prevention of Significant Deterioration (PSD) BACT requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 54 parts per million by volume (dry, corrected to 15% O2)  
Reference Test Method: 40CFR60 Append. B

frequency: CONTINUOUS  
mode: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

#### **Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

#### **Item 95.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
PreEmission Source: S00GT

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

#### **Item 95.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:  
NORMAL OPERATION OF GAS TURBINE ALONE WHILE FIRING WHILE  
G NUMBER 2 DISTILLATE OIL.

1.) Emissions of oxides of nitrogen (NOx) from the gas turbine alone while firing Number 2 distillate oil shall not exceed the values from the attached performance curves ( Figure # 2 ) under full load for the corresponding combustion air inlet temperature. The NOx limit of 99.0 lb/hr corresponds to an inlet air temperature of 47.5 degrees F.

2.) The emissions shall be monitored by a continuous



monitoring system (CEMS) meeting Performance Specification  
2 in 40 CFR 60 Appendix B.

3.) Recordkeeping, reporting and monitoring shall be  
conducted according to 60.7 and 60.13.

4.) These limits were established to comply with  
Prevention of Significant Deterioration (PSD) BACT  
requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: OXIDES OF NITROGEN

0 Upper Permit Limit: 99.0 pounds per hour  
Reference Test Method: 40CFR60 Append. B

frequency: CONTINUOUS  
Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

#### **Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

#### **Item 96.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
Process: 400

Regulated Contaminant(s):  
CAS No: 0NY210-00-0

OXIDES OF NITROGEN

#### **Item 96.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

**NORMAL OPERATION FOR THE TURBINE AND DUCT BURNER FIRING  
ON NATURAL GAS**

1.) Combined emissions of oxides of nitrogen (NO<sub>x</sub>) from  
the gas turbine and duct burner while firing natural gas  
shall not exceed 32 ppmv (dry, corrected to 15%  
O<sub>2</sub>).



2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 2 in 40 CFR 60 Appendix B.

3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.

4.) These limits were established to comply with Prevention of Significant Deterioration (PSD) BACT requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 32 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)  
Reference Test Method: 40CFR60 Append. B

frequency: CONTINUOUS  
Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

Applicable Federal Requirement: 40CFR 52.21(j), Subpart A

#### Item 97.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
Process: 400

Regulated Contaminant(s):  
CAS No: 000630-08-0

CARBON MONOXIDE

#### Item 97.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE TURBINE AND DUCT BURNER FIRING ON NATURAL GAS

1.) Combined emissions of carbon monoxide (CO) from the



gas turbine and duct burner while firing natural gas shall not exceed 44 ppmv (dry, corrected to 15% O<sub>2</sub>)

2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 2 in 40 CFR 60 Appendix B.

3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.

4.) These limits were established to comply with Prevention of Significant Deterioration (PSD) BACT requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 44 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)  
Reference Test Method: 40CFR60 Append. B

frequency: CONTINUOUS  
Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

### **Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

#### **Item 98.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
Process: 400

Regulated Contaminant(s):  
CAS No: 0NY210-00-0

OXIDES OF NITROGEN

#### **Item 98.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE TURBINE AND DUCT BURNER FIRING ON NATURAL GAS



1.) Combined emissions of oxides of nitrogen (NO<sub>x</sub>) from the gas turbine and duct burner while firing natural gas shall not exceed the values from the attached performance curves (Figure # 3) under full load for the corresponding combustion air inlet temperature. The NO<sub>x</sub> limit of 64.5 lb/hr corresponds to an inlet air temperature of 47.5 degrees F.

2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 2 in 40 CFR 60 Appendix B.

3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.

4.) These limits were established to comply with Prevention of Significant Deterioration (PSD) BACT requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 64.5 pounds per hour  
Reference Test Method: 40CFR60 Append. B

frequency: CONTINUOUS  
period: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

Applicable Federal Requirement: 40CFR 52.21(j), Subpart A

#### Item 99.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
Process: 400

Regulated Contaminant(s):  
CAS No: 000630-08-0

CARBON MONOXIDE

#### Item 99.2:

Compliance Certification shall include the following monitoring:



Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE TURBINE AND DUCT BURNER FIRING ON NATURAL GAS

1.) Combined emissions of carbon monoxide (CO) from the gas turbine and duct burner while firing natural gas shall not exceed the values from the attached performance curves (Figure # 3) under full load for the corresponding combustion air inlet temperature. The CO limit of 52.0 lb/hr corresponds to an inlet air temperature of 47.5 degrees F.

2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 2 in 40 CFR 60 Appendix B.

3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.

4.) These limits were established to comply with Prevention of Significant Deterioration (PSD) BACT requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 52.0 pounds per hour  
Reference Test Method: 40CFR60 Append. B

frequency: CONTINUOUS  
period: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

Applicable Federal Requirement: 40CFR 52.21(j), Subpart A

#### Item 100.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
Emission Source: S00DB

Regulated Contaminant(s):  
CAS No: 0NY210-00-0

OXIDES OF NITROGEN

**Item 100.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE ONCE PER PERMIT TERM

1.) Emissions of oxides of nitrogen (NOx) from the duct burner alone while firing natural gas shall not exceed 0.10 lb/mmBtu.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for NOx once per permit term using the continuous emission monitoring system (CEMS) equipment already on the stack.

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

Manufacturer Name/Model Number: TSI

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA Method 20

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Mode: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 101.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Point Emission Source: S00DB

Regulated Contaminant(s):

CAS No: 000630-08-0

CARBON MONOXIDE

**Item 101.2:**



Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE ONCE PER PERMIT TERM

1.) Emissions of oxides of Carbon monoxide from the duct burner alone while firing natural gas shall not exceed 0.14 lb/mmBtu.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for CO once per permit term using the continuous emission monitoring system (CEMS) equipment already on the stack.

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

Manufacturer Name/Model Number: TSI  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 0.14 pounds per million Btus  
Reference Test Method: EPA Method 10  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Mode: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

Applicable Federal Requirement: 40CFR 52.21(j), Subpart A

#### Item 102.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
Emission Source: S00DB

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

#### Item 102.2:

Compliance Certification shall include the following monitoring:



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE WHILE FIRING NATURAL GAS. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

1.) PM-10 particulate emissions from the duct burner while firing natural gas shall not exceed 0.01 lb./mmBtu.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

Parameter Monitored: PM-10

Upper Permit Limit: 0.01 pounds per million Btus

Reference Test Method: CFR51AppM201/202

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Mode: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

Applicable Federal Requirement: 40CFR 52.21(j), Subpart A

#### Item 103.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Point Emission Source: S00DB

Regulated Contaminant(s):

CAS No: 0NY075-00-5

PM-10

#### Item 103.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE WHILE FIRING NATURAL GAS. STACK TESTING REQUIRED AT THE REQUEST OF THE



DEPARTMENT.

1.) PM-10 particulate emissions from the duct burner while firing natural gas shall not exceed 1.0 lb/hr.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

Parameter Monitored: PM-10

Upper Permit Limit: 1.0 pounds per hour

Reference Test Method: CFR51AppM201/202

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Mode: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

Applicable Federal Requirement: 40CFR 52.21(j), Subpart A

#### Item 104.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Point Emission Source: S00DB

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

#### Item 104.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE ONCE PER PERMIT TERM

1.) Emissions of oxides of nitrogen (NO<sub>x</sub>) from the duct burner alone while firing natural gas shall not exceed 8.5 lb/hr.



2.) The facility shall conduct periodic monitoring by conducting a stack emission test for NOx once per permit term using the continuous emission monitoring system (CEMS) equipment already on the stack.

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

Manufacturer Name/Model Number: TSI  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 8.5 pounds per hour  
Reference Test Method: EPA Method 20  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Mod: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

#### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

Applicable Federal Requirement: 40CFR 52.21(j), Subpart A

##### Item 105.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
PtEmission Source: S00DB

Regulated Contaminant(s):  
CAS No: ONY075-00-0 PARTICULATES

##### Item 105.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE WHILE FIRING NATURAL GAS. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

1.) Particulate emissions from the duct burner while firing natural gas shall not exceed 1.0 lb/hr.

2.) The facility shall conduct periodic monitoring by



conducting a stack emission test for particulates upon written request of the Department.

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

monitored: PARTICULATES

Upper Permit Limit: 1.0 pounds per hour  
Reference Test Method: METHOD 5 OR 17  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

#### **Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

#### **Item 106.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001  
Emission Source: S00DB

Regulated Contaminant(s):  
CAS No: 0NY075-00-0

PARTICULATES

#### **Item 106.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE WHILE FIRING NATURAL GAS. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

1.) Particulate emissions from the duct burner while firing natural gas shall not exceed 0.01 lb./mmBtu.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.

3.) The facility shall submit a stack testing protocol



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32-00010/00016

Facility DEC ID: 9563200010

for Department approval.

- 4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

nitroed: PARTICULATES

Upper Permit Limit: 0.01 pounds per million Btus  
 Reference Test Method: METHOD 5 or 17  
 Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

hod: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Compliance Certification**

Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 107.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001      Emission Point: 00001  
 PtEmission Source: S00DB

Regulated Contaminant(s):

CAS No: 000630-08-0      CARBON MONOXIDE

**Item 107.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE ONCE PER PERMIT TERM

- 1.) Emissions of oxides of Carbon monoxide from the duct burneralone while firing narural gas shall not exceed 12.0 lb/hr.

- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for CO once per permit term using the continuous emission monitoring system (CEMS) equipment already on the stack.

- 3.) The facility shall submit a stack testing protocol

for Department approval.

- 4.) This limit was established to comply with the BACT



requirements associated with 40 CFR 52.21(j).

Manufacturer Name/Model Number: TSI  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 12.0 pounds per hour  
Reference Test Method: EPA Method 10  
Monitoring Frequency: AS REQUIRED - SEE MONITORING  
DESCRIPTION

hod: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement:** 40CFR 52.21(j), Subpart A

#### Item 108.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

#### Item 108.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

1) The continuous emission monitoring systems (CEMS) shall meet the requirements of 40 CFR 60 appendix B and F, the Northeast States for Coordinated Air Use Management (NESCAUM) guidance document for CEMS (September 1990), and

NYSDEC Air Guide-34.

2) All emission limits are based on heat input corresponding to the higher heating value (HHV) of the fuel burned. The emission limits apply to all loads of operation, except during periods of malfunction, and during startup and shutdown. All emission limits are also

based on a one hour average.

3) Excess emissions shall be identified as any one-hour block period during which the average emissions of NO<sub>x</sub> or CO, as measured by the CEM system, exceeds the corresponding mass or concentration emission limits set

forth in this permit.

4) For the purpose of this permit, excess emissions indicated by the CEMS for one hour block periods other than startup, shutdowns, malfunctions (as stated in 6



NYCRR 201-1.4) and CEM calibrations may be considered violations of the applicable emission limits.

5) The auxiliary boiler may not operate simultaneously with the turbine except during periods of startup and shutdown.

6) The auxiliary boiler shall only fire natural gas or number 2 fuel oil.

frequency: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**EPA Region 2 address.**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.4, NSPS Subpart A**

**Item 109.1:**

Condition applies to Emission Unit: S-00002

**Item 109.2:**

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance  
USEPA Region 2

290 Broadway, 21st Floor  
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC  
Bureau of Enforcement and Compliance Assurance  
50 Wolf Road

Albany, NY 12233-3254

**Recordkeeping requirements.**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.7(b), NSPS Subpart A**

**Item 110.1:**

Condition applies to Emission Unit: S-00002

**Item 110.2:**

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

**Excess emissions report.**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.7(c), NSPS Subpart A**

**Item 111.1:**

Condition applies to Emission Unit: S-00002

**Item 111.2:**

Affected owners or operators shall submit an excess emissions report quarterly (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be post marked no later than 30 days after each calendar quarter (or as appropriate), and shall contain the following information:

- 1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;
- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 3) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero span checks and the nature of the system repairs or adjustments; and
- 4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be provided in the report.

**Excess emissions report.**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.7(d), NSPS Subpart A**

**Item 112.1:**

Condition applies to Emission Unit: S-00002

**Item 112.2:**

An excess emissions report and/or a summary report, for each pollutant monitored, shall be sent to the Administrator quarterly (or as required), in the form prescribed in Figure 1 of subdivision 60.7(d).

**Condition 113: Facility files for subject sources.**

**Effective between the dates of 12/21/1998 and 12/21/2003**



**Applicable Federal Requirement: 40CFR 60.7(f), NSPS Subpart A**

**Item 113.1:**

Condition applies to Emission Unit: S-00002

**Item 113.2:**

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

**Condition 114: Opacity standard compliance testing.**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.11, NSPS Subpart A**

**Item 114.1:**

Condition applies to Emission Unit: S-00002

**Item 114.2:**

The following conditions shall be used to determine compliance with the opacity standards:

- 1) observations shall be conducted in accordance with Reference Method 9, in Appendix A or this Part 40 CFR 60 (or an equivalent method approved by the Administrator including continuous opacity monitors);
- 2) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and
- 3) all other applicable conditions cited in section 60.11 of this part.

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.13(a), NSPS Subpart A**

**Item 115.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

**Item 115.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



As referenced in 40 CFR 60.13(a) Subpart A, the Reporting Requirements of Part 60 appendix F section 7 follow:

On a quarterly basis the facility shall report for each CEMS the accuracy results from 40CFR60 Appendix F, Section 6 and the Calibration Drift (CD) assessment results from Section 4, report the drift and accuracy information as a Data Assessment Report (DAR), and include one copy of this DAR for each quarterly audit with the report of emissions required under the applicable subparts of this part. As a minimum, the DAR must contain the following information in a format consistent with Air Guide 34:

1. Source owner or operator name and address.
2. Identification and location of monitors in the CEMS.
3. Manufacturer and model number of each monitor in the CEMS.
4. Assessment of CEMS data accuracy and date of assessment as determined by a RATA (Relative Accuracy Test Audit), RAA (Relative Accuracy Audit), or CGA (Cylinder Gas Audit) described in Section 5 including the RA (Relative Accuracy) for the RATA, the A (Accuracy) for the RAA or CGA, the RM (Reference Method) results, the cylinder gases certified values, the CEMS responses, and the calculations results as defined in Section 6. If the accuracy audit results show the CEMS to be out-of-control, the CEMS operator shall report both the audit results showing the CEMS to be out-of-control and the results of the audit following corrective action showing the CEMS to be operating within specifications.
5. Results from EPA performance audit samples described in Section 5 and the applicable RM's.
6. Summary of all corrective actions taken when CEMS was determined out-of-control, as described in Sections 4 and 5.
7. RATA must be conducted at least once every four calendar quarters, RAA may be conducted three of four quarters but in no more than three quarter in succession.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

### Compliance Certification



Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement: 40CFR 60.13(a), NSPS Subpart A**

**Item 116.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

**Item 116.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As referenced in 40 CFR 60.13(a) Subpart A, the Quality Control Requirements from Part 60 appendix F section 3 follows:

For gas CEMS used for compliance determination, each source owner or operator must develop and implement a QC program. As a minimum, each QC program must include written procedures which should describe in detail, complete, step-by-step procedures and operations for each

of the following activities:

1. Calibration of CEMS.
2. CD determination and adjustment of CEMS.
3. Preventive maintenance of CEMS (including spare parts inventory).
4. Data recording, calculations, and reporting.
5. Accuracy audit procedures including sampling and analysis methods.
6. Program of corrective action for malfunctioning CEMS.

Whenever excessive inaccuracies occur for two consecutive quarters, the source owner or operator must revise the current written procedures or modify or replace the CEMS to correct the deficiency causing the excessive inaccuracies. These written procedures must be kept on record and available for inspection by the enforcement agency.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Compliance Certification**

Effective between the dates of 12/21/1998 and 12/21/2003



**Applicable Federal Requirement: 40CFR 60.13(a), NSPS Subpart A**

**Item 117.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

**Item 117.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the purposes of this section, all continuous monitoring systems required under applicable subparts shall be subject to the provisions of this section upon promulgation of performance specifications for continuous monitoring systems under appendix B to this part and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, appendix F to this part, unless otherwise specified in an applicable subpart or by the Administrator. Appendix F is

applicable December 4, 1987.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 6 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.13(c), NSPS Subpart A**

**Item 118.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

**Item 118.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the owner or operator of an affected facility elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under §60.11(e)(5), he or she shall conduct a performance



evaluation of the COMS as specified in Performance Specification 1, appendix B, of 40CFR 60 before the performance test required under §60.8 is conducted. Otherwise, the owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under §60.8 or within 30 days thereafter in accordance with the applicable performance specification in appendix B of 40CFR 60. The owner or operator of an affected facility shall conduct COMS or CEMS performance evaluations at such other times as may be required by the Administrator under section 114 of the Act.

(1) The owner or operator of an affected facility using a COMS to determine opacity compliance during any performance test required under §60.8 and as described in §60.11(e)(5) shall furnish the Administrator two or, upon request, more copies of a written report of the results of the COMS performance evaluation described in 40CFR60.13(c) at least 10 days before the performance test required under §60.8 is conducted.

(2) Except as provided in paragraph 40CFR60.13(c)(1), the owner or operator of an affected facility shall furnish the Administrator within 60 days of completion two or, upon request, more copies of a written report of the results of the performance evaluation.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

### Compliance Certification

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.13(d), NSPS Subpart A**

#### Item 119.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

#### Item 119.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners and operators of all continuous emission monitoring systems installed in accordance with the



provisions of this part shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications in appendix B. The system must allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified, whenever specified. For continuous monitoring systems measuring opacity of emissions, the optical surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments except that for systems using automatic zero adjustments. The optical surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity.

Monitoring Frequency: DAILY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

#### **Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

#### **Applicable Federal Requirement: 40CFR 60.13(e), NSPS Subpart A**

##### **Item 120.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

##### **Item 120.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under 40CFR60.13(d), all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:

- (1) All continuous monitoring systems referenced by 40CFR60.13(c) for measuring opacity of emissions shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.
- (2) All continuous monitoring systems referenced by 40CFR60.13(c) for measuring emissions, except opacity,



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**32-00010/00016**

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shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 6 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.13(h), NSPS Subpart A**

**Item 121.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

**Item 121.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in §60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O<sub>2</sub> or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



Reports due 30 days after the reporting period.  
Initial report is due 1/30/99.  
Subsequent reports are due every 6 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.42b(j), NSPS Subpart Db**

**Item 122.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Regulated Contaminant(s):  
CAS No: 007446-09-5

SULFUR DIOXIDE

**Item 122.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Percent reduction requirements are not applicable to affected facilities combusting only very low sulfur oil. The owner or operator of an affected facility combusting very low sulfur oil shall demonstrate that the oil meets the definition of very low sulfur oil by: (1) following the monitoring procedures as described in §60.47b(b) to determine sulfur dioxide emission rate or fuel oil sulfur content; or (2) maintaining fuel receipts as described in §60.49b(r).

Very low sulfur fuel is defined as oil that contains no more than 0.5 percent sulfur or that when combusted without sulfur dioxide emission control, has a sulfur dioxide emission rate equal to or less than 215 ng/J (0.5 lb/mmBtu) heat input.

As part of the PSD permit the facility has agreed to use distillate fuel oil which contains no more than 0.27% sulfur by weight which is more stringent than 0.5% required by this section - 60.42b(j).

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT



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Permit Limit: 0.27 percent  
Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY  
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirements 40CFR 60.43b(f), NSPS Subpart Db**

**Item 123.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Regulated Contaminant(s):  
CAS No: 0NY075-00-0

PARTICULATES

**Item 123.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

On and after the date on which the initial performance test is completed or is required to be completed under 60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts coal, oil, wood, or mixtures of these fuels with any other fuels shall cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not

more than 27 percent opacity.

Opacity shall be monitored by a continuous opacity monitoring systems (COMS) required by 40 CFR 60.48b(a).

Parameter Monitored: OPACITY  
Permit Limit: 20 percent

Reference Test Method: 40 CFR 60 App B

Frequency: CONTINUOUS  
Period: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.



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Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**40CFR 60.44b(a)(1), NSPS Subpart Db**

**Item 124.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

**Item 124.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Except as provided under 60.44b(k), on and after the date on which the initial performance test is completed or is required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that is subject to the provisions of this section and that combusts only coal, oil, or natural gas shall cause to be discharged into the atmosphere from that affected facility any gases that contain nitrogen oxides (expressed as NO<sub>2</sub>) in excess of the following emission limit.

Manufacturer Name/Model Number: TSI

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.20 pounds per million Btus

Reference Test Method: 40 CFR 60 App B & F

Frequency: CONTINUOUS

Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**40CFR 60.48b(a), NSPS Subpart Db**



**Item 125.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Regulated Contaminant(s):  
CAS No: 0NY075-00-0

PARTICULATES

**Item 125.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The owner or operator shall install, calibrate, maintain,  
and operate a continuous monitoring system for measuring  
the opacity of emissions discharged to the atmosphere and

record the output of the system.

Parameter Monitored: OPACITY  
Permit Limit: 20 percent  
Frequency: CONTINUOUS  
Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 6 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirements: 40CFR 60.48b(b), NSPS Subpart Db**

**Item 126.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Regulated Contaminant(s):  
CAS No: 0NY210-00-0

OXIDES OF NITROGEN

**Item 126.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The owner or operator of an affected facility subject to



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the nitrogen oxides standards under §60.44b shall install, calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxides emissions discharged to the atmosphere and record the output of the system.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.20 pounds per million Btus  
Reference Test Method: 40CFR60 App. B,F

frequency: CONTINUOUS  
mode: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.48b(c), NSPS Subpart Db**

**Item 127.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 127.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The continuous Nitrogen Oxides emission monitoring systems required by 40CFR60.48b(b) shall be operated and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

frequency: CONTINUOUS

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**



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**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.48b(d), NSPS Subpart Db**

**Item 128.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Regulated Contaminant(s):

CAS No: 0NY210-00-0 **OXIDES OF NITROGEN**

**Item 128.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The 1-hour average nitrogen oxides emission rates measured by the continuous nitrogen oxides monitor required by 60.48b (b) of this section and required under §60.13(h) shall be expressed in ng/J or lb/million Btu heat input and shall be used to calculate the average emission rates under §60.44b. The 1-hour averages shall be calculated using the data points required under §60.13(b). At least 2 data points must be used to calculate each 1-hour average.

Manufacturer Name/Model Number: TSI  
 Parameter Monitored: OXIDES OF NITROGEN  
 Upper Permit Limit: 0.20 pounds per million Btus  
 Reference Test Method: 40CFR60 App. B,F

Frequency: CONTINUOUS  
 Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.48b(e)(2), NSPS Subpart Db**

**Item 129.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002



**Item 129.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The procedures under 60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.

The span values shall be based on the emission limit of each contaminate being monitored.

frequency: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 130: Use of alternative methods for measuring NOx during CEMS downtime**  
**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement 40CFR 60.48b(f), NSPS Subpart Db**

**Item 130.1:**

Condition applies to Emission Unit: S-00002

**Item 130.2:**

When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement 40CFR 60.49b(d), NSPS Subpart Db**

**Item 131.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

**Item 131.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall record and maintain records



of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for each calendar quarter. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated

at the end of each calendar month.

Monitoring Frequency: DAILY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement 40CFR 60.49b(f), NSPS Subpart Db**

**Item 132.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Regulated Contaminant(s):

CAS No: 0NY075-00-0

PARTICULATES

**Item 132.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall maintain records of opacity measurements made by the monitoring system required under 40CFR60.48b(a).

Monitoring Frequency: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement 40CFR 60.49b(g), NSPS Subpart Db**

**Item 133.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

**Item 133.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

## Monitoring Description:

The owner or operator shall maintain records of the following information for each steam generating unit operating day:

- 1) Calendar date.
- 2) The average hourly nitrogen oxides emission rates (expressed as NO<sub>2</sub>) (ng/J or lb/million Btu heat input) measured or predicted.
- 3) The hourly nitrogen oxides emission rates (ng/J or lb/million Btu heat input) calculated at the end of each steam generating unit operating day.
- 4) Identification of the steam generating unit operating days when the hourly nitrogen oxides emission rates are in excess of the nitrogen oxides emission standards in this permit, with the reasons for such excess emissions as well as a description of corrective actions taken.
- 5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.
- 6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.
- 7) Identification of the "F" factor used for calculations, method of determination, and type of fuel combusted.
- 8) Identification of the times when the pollutant concentration exceeded the full span of the continuous monitoring system.
- 9) Description of any modifications to the continuous monitoring system that could affect the ability of the system to comply with Performance Specification 2 or 3.
- 10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40CFR60 Appendix F, Procedure 1.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.



Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.49b(h), NSPS Subpart Db**

**Item 134.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

**Item 134.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall submit excess emission reports for any calendar quarter during which there are excess emissions from the affected facility. If there are no excess emissions during the calendar quarter, the owner or operator shall submit a report semiannually stating that no excess emissions occurred during that semiannual reporting period.

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 60.49b(i), NSPS Subpart Db**

**Item 135.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

**Item 135.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



The owner or operator of any affected facility subject to the continuous monitoring requirements for nitrogen oxides under §60.48b shall submit a quarterly report containing the information recorded under 40CFR60.49b(g). All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

### Compliance Certification

Effective between the dates of 12/21/1998 and 12/21/2003

### Applicable Federal Requirements: 40CFR 60.49b(r), NSPS Subpart Db

#### Item 136.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

#### Item 136.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator who elects to demonstrate that the affected facility combusts only very low sulfur oil shall obtain and maintain at the facility fuel receipts from the fuel supplier which certify that the oil meets the definition of distillate oil as defined 40CFR60.41b. For the purposes of this requirement, the oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Quarterly reports shall be submitted to the Administrator certifying that only very low sulfur oil was combusted in the affected facility during the preceding quarter.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.





**New York State Department of Environmental Conservation**

**32-00010/00016**

**Facility DEC ID: 9563200010**

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 138.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002      Emission Point: 00002  
Process: 500

Regulated Contaminant(s):  
fOCAS No: 000630-08-0

CARBON MONOXIDE

**Item 138.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE AUXILARY BOILER FIRING ON  
NATURAL GAS

- 1.) Emissions of carbon monoxide (CO) from auxiliary boiler while firing natural gas shall not exceed 0.042 lb/mmBtu.
- 2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 2 in 40 CFR 60 Appendix B.
- 3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.
- 4.) These limits were established to comply with Prevention of Significant Deterioration (PSD) BACT requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 0.042 pounds per million Btus  
Reference Test Method: 40CFR60 Appen. B,F

frequency: CONTINUOUS  
Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.









**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 142.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002 Emission Point: 00002  
Process: 500

Regulated Contaminant(s):  
CAS No: 0NY075-00-5 PM-10

**Item 142.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE AUXILARY BOILER WHILE FIRING  
NATURAL GAS AT THE REQUEST OF THE DEPARTMENT.

- 1.) PM-10 particulate emissions from the auxilary boiler while firing natural gas shall not exceed 0.005 lb./mmBtu.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

Parameter Monitored: PM-10

Upper Permit Limit: 0.005 pounds per million Btus  
Reference Test Method: CFR51AppM201/202  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Mode: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**



**Item 143.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002      Emission Point: 00002  
Process: 500

Regulated Contaminant(s):  
CAS No: 0NY075-00-0

PARTICULATES

**Item 143.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE AUXILARY BOILER WHILE FIRING  
NATURAL GAS AT THE REQUEST OF THE DEPARTMENT.

1.) Particulate emissions from the auxilary boiler while  
firing natural gas shall not exceed 0.005  
lb./mmBtu.

2.) The facility shall conduct periodic monitoring by  
conducting a stack emission test for particulates upon  
written request of the Department.

3.) The facility shall submit a stack testing protocol  
for Department approval.

4.) This limit was established to comply with the BACT  
requirements associated with 40 CFR 52.21(j).

monitored: PARTICULATES

Upper Permit Limit: 0.005 pounds per million Btus  
Reference Test Method: METHOD 5 OR 17  
Monitoring Frequency: AS REQUIRED - SEE MONITORING  
DESCRIPTION

mode: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 144.1:**

The Compliance Certification activity will be performed for:





**Item 145.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE AUXILLARY BOILER WHILE FIRING  
NUMBER 2 DISTILLATE OIL AT THE REQUEST OF THE DEPARTMENT.

- 1.) Particulate emissions from the auxillary boiler while number 2 oil gas shall not exceed 0.032 lb./mmBtu.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21( j).

monitored: PARTICULATES

Upper Permit Limit: 0.032 pounds per million Btus  
Reference Test Method: EPA Method 5  
Monitoring Frequency: AS REQUIRED - SEE MONITORING  
DESCRIPTION

Mode: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 146.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002 Emission Point: 00002  
Process: 600

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 146.2:**

Compliance Certification shall include the following monitoring:





**New York State Department of Environmental Conservation**

**32-00010/00016**

**Facility DEC ID: 9563200010**

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE AUXILARY BOILER WHILE FIRING NUMBER 2 DISTILLATE OIL AT THE REQUEST OF THE DEPARTMENT.

1.) Particulate emissions from the auxilary boiler while firing number 2 oil shall not exceed 5.2 lb/hr.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.

3.) The facility shall submit a stack testing protocol for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

Parameter Monitored: PM-10

Upper Permit Limit: 5.2 pounds per hour

Reference Test Method: CFR51AppM201/202

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Mode: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 148.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002 Emission Point: 00002

Process: 600

Regulated Contaminant(s):

CAS No: 0NY075-00-0

PARTICULATES

**Item 148.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE AUXILARY BOILER WHILE FIRING NUMBER 2 DISTILLATE OIL AT THE REQUEST OF THE DEPARTMENT.





**New York State Department of Environmental Conservation**

**32-00010/00016**

**Facility DEC ID: 9563200010**

monitoring system (CEMS) meeting Performance Specification  
2 in 40 CFR 60 Appendix B.

3.) Recordkeeping, reporting and monitoring shall be  
conducted according to 60.7 and 60.13.

4.) These limits were established to comply with  
Prevention of Significant Deterioration (PSD) BACT  
requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 44.5 pounds per hour  
Reference Test Method: PT 60 APPENDIX B,F

frequency: CONTINUOUS  
Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 150.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002 Emission Point: 00002  
Process: 600

Regulated Contaminant(s):  
CAS No: ONY075-00-5 PM-10

**Item 150.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE AUXILIARY BOILER WHILE FIRING NUMBER  
2 DISTILLATE OIL AT THE REQUEST OF THE DEPARTMENT.

1.) PM-10 particulate emissions from the auxiliary boiler  
while firing number 2 oil shall not exceed 0.032  
lb./mmBtu.

2.) The facility shall conduct periodic monitoring by





for Department approval.

4.) This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j).

nitroed: PARTICULATES

Upper Permit Limit: 0.032 pounds per million Btus  
Reference Test Method: METHOD 5 OR 17  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

hod: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Compliance Certification**

Effective between the dates of 12/21/1998 and 12/21/2003

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 152.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002 Emission Point: 00002  
Process: 600

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 152.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE AUXILIARY BOILER FIRING ON NUMBER 2 DISTILLATE OIL

1.) Emissions of carbon monoxide (CO) from auxiliary boiler while firing number 2 oil shall not exceed 7.5 lb/hr.

2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification

2 in 40 CFR 60 Appendix B.

3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.

4.) These limits were established to comply with Prevention of Significant Deterioration (PSD) BACT



requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 7.5 pounds per hour  
Reference Test Method: PT 60 APPENDIX B,F

Frequency: CONTINUOUS  
Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

### **Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

#### **Item 153.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002 Emission Point: 00002  
Process: 600

Regulated Contaminant(s):  
CAS No: 000630-08-0

CARBON MONOXIDE

#### **Item 153.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE AUXILIARY BOILER FIRING ON NUMBER  
2 DISTILLATE OIL

1.) Emissions of carbon monoxide (CO) from auxiliary  
boiler while firing number 2 oil shall not exceed 0.05  
lb/mmBtu.

2.) The emissions shall be monitored by a continuous  
monitoring system (CEMS) meeting Performance Specification

2 in 40 CFR 60 Appendix B.

3.) Recordkeeping, reporting and monitoring shall be  
conducted according to 60.7 and 60.13.

4.) These limits were established to comply with  
Prevention of Significant Deterioration (PSD) BACT



requirements.

Manufacturer Name/Model Number: TSI  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 0.05 pounds per million Btus  
Reference Test Method: PT 60 APPENDIX B,F

Frequency: CONTINUOUS  
Reporting Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).

### **Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

#### **Item 154.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00002 Emission Point: 00002  
Process: 600

Regulated Contaminant(s):  
CAS No: 007446-09-5

SULFUR DIOXIDE

#### **Item 154.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

The number of hours of operation of the turbine and the auxiliary boiler, each taken separately, shall not exceed 2190 per year while firing number 2 fuel oil. This shall be calculated by summing the hours of operation of the gas turbine while firing number 2 fuel oil and the hours of operation the auxiliary boiler while firing number 2 fuel oil.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 2190  
Reporting Frequency: HOURLY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.

Initial report is due 1/30/99.



Subsequent reports are due every 3 calendar month(s).

**Compliance Certification**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable Federal Requirement:**

**6NYCRR 212.9**

**Item 155.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00003

Regulated Contaminant(s):

CAS No: 007664-41-7

AMMONIA

**Item 155.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

AMMONIA EMISSIONS SHALL BE MONITORED  
FROM THE STRIPPING COLUMN BY SAMPLING AND

NG BOTH INLET AND OUTLET

WASTEWATER FOR AMMONIA, AND MEASURING THE  
WASTEWATER FLOW RATE, THEN IN TURN

ING EMISSIONS BY MATERIAL

BALANCE.

THE STRIPPING COLUMN EMITS AMMONIA AT A  
RATE OF 9.9 POUNDS PER HOUR. PART  
212.9(b) TABLE 2 REQUIRES CONTROL FOR  
AMMONIA, A "C" RATED CONTAMINANT, IF  
EMITTED AT A RATE OF 10 POUNDS PER HOUR  
OR GREATER. NO CONTROL IS THEREFORE  
REQUIRED FOR THIS PROCESS SO LONG AS  
EMISSIONS ARE MAINTAINED BELOW 10 POUNDS  
PER HOUR.

er Monitored: AMMONIA

Upper Permit Limit: 9.9 pounds per hour  
Reference Test Method: PT 60 APPENDIX A

Frequency: QUARTERLY

hod: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Initial report is due 1/30/99.

Subsequent reports are due every 3 calendar month(s).



**STATE ONLY ENFORCEABLE CONDITIONS**

\*\*\*\* Facility Level \*\*\*\*

**Condition 156: General Provisions: Facilities Subject to Subparts 201-5 and 201-6**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable State Requirement:**

**6NYCRR 201-5.**

**Item 156.1:**

This section contains terms and conditions that are not federally enforceable and are not required under the Act or under any of its applicable requirements. Terms and conditions so designated are not subject to the requirements of Section 201-6.4 of Part 201.

**Item 156.2:**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

**Item 156.3:**

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

**Item 156.4:**

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

**Air pollution prohibited**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable State Requirement:**

**6NYCRR 211.2**

**Item 157.1:**

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in

ation with others.



**Diesel truck opacity limitation**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable State Requirement:**

**6NYCRR 217-3.2(a)**

**Item 158.1:**

No person who owns, operates or leases a vehicle propelled by a diesel engine or who owns, leases or occupies land and has actual or apparent dominion or control over the operation of a vehicle propelled by a diesel engine which is present on said land, shall operate said vehicle or allow or permit it to be operated, in such a manner that exhaust emissions of a shade of blue, black, or gray equal to or greater than No. 1 on the Ringelmann chart (20 percent opacity) or equivalent standard acceptable to the commissioner are produced for a continuous period of more than five seconds when the vehicle is in motion.

**Idling of diesel trucks limited**

**Effective between the dates of 12/21/1998 and 12/21/2003**

**Applicable State Requirement:**

**6NYCRR 217-3.2(b)**

**Item 159.1:**

No person who owns, operates or leases a bus or truck, the motive power for which is provided by a diesel engine or who owns, leases or occupies land and has the actual or apparent dominion or control over the operation of a bus or truck present on such land, the motive power for which said bus or truck is provided by a diesel engine, shall allow or permit the diesel engine of such bus or truck to idle for more than five consecutive minutes when the bus or truck is not in motion, except as otherwise permitted by 6

Subpart 217-3.3.