

**New York State Department of Environmental Conservation**

Permit ID: 7034600003



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

**IDENTIFICATION INFORMATION**

Air Title V Facility

Permit ID: 9-0412-00042/00011

Mod 0 Effective Date: 10/27/1998 Expiration Date: 10/27/2003

Mod 1 Effective Date: 10/29/2002 Expiration Date: 10/27/2003

DAT TECHNOLOGIES AZON LLC

701 AZON ROAD

JOHNSON CITY, NY 13790

Contact: CARL ERNST

DAT TECHNOLOGIES AZON LLC

701 AZON ROAD

JOHNSON CITY, NY 13790

(607) 797-2368

DECK OLEAN ENERGY CENTER

140 MOORE AVENUE

OLEAN, NY 14760

Contact: TIMOTHY J ARNOLD

DAT TECHNOLOGIES AZON LLC

701 AZON ROAD

JOHNSON CITY, NY 13790-0290

(607) 797-2368

Description:

Permit Description

Modification 1 (MOD 1) is a minor modification of the existing Title V Permit. The changes will:

1) Clarify that the facility can operate at peak load (108% of base load) for up to 500 hrs per year. Initial modeling for compliance with ambient air quality standards was conducted considering peak load operations, but it was overlooked and not included in the special conditions that were part of Indeck Olean's operating permit. The Title V minor permit modification will add this to the Title V permit. This does not change the facilities potential to emit or affect the applicability of any regulations, including New Source Review.

2) This permit will have a different format than the original - boiler plate conditions will be identified alphabetically and monitoring conditions will be identified numerically. Conditions with the format 1-#

of this modification.

## New York State Department of Environmental Conservation



Permit ID: 7034600003

### Permit Description (issued October 27, 1998)

The Indeck-Olean Energy Center (Indeck) is a combined cycle co-generation plant that produces electricity and steam. Indeck is located in an industrial part of the City of Olean, Cattaraugus County. Indeck commenced production in 1993 with a rated net generating capacity of 79.9 megawatts (MW). Process steam is provided to Dresser-Rand Company, the host facility, and electric power is sold to Niagara Mohawk Power Company, the local utility upon demand.

Indeck has one emission unit (EU), O-00001. EU O-00001 consists of a General Electric Frame 6 gas turbine (GT) that produces 39.6 MW at 47 F inlet air temperature. Rated heat input for the GT is approximately 421 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 the Coen duct burner (DB), then pass through the heat recovery steam generator (HRSG), through a Selective Catalytic Reduction (SCR) system and then out a stack, emission point (EP) 00001. The HRSG generates steam by absorbing heat from the exhaust gases of the GT and DB. Steam injection at the GT and the SCR system are used to control emissions of oxides of nitrogen (NO<sub>x</sub>). The HRSG provides steam for NO<sub>x</sub> control at the turbine, steam to the condensing steam turbine electric generator, and process steam to Dresser-Rand. The Coen duct burner heat input is limited to 249 mmBtu/hr to avoid the requirements of 40 CFR 60 Subpart Da, and the steam turbine generator is rated at 39.6 MW.

An extractive Continuous Emission Monitoring System (CEMS) manufactured by CISCO is used to measure and record dry undiluted concentrations of oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), oxygen (O<sub>2</sub>), ammonia (NH<sub>3</sub>), flow rate, and opacity at the stack and NO<sub>x</sub> at the selective catalytic reduction (SCR) inlet. The ammonia monitoring system is used to control injection of ammonia into the SCR and monitor ammonia slip through the SCR. This ammonia monitoring system is not a certified CEMS.

Six processes were submitted on the application as part of this EU. Process 100 was the turbine combusting natural gas without the duct burner firing, process 200 was the turbine combusting on number 2 fuel oil without the duct burner firing, process 300 was the duct burner firing natural gas without the turbine firing, process 400 was the duct burner firing number 2 fuel oil without the turbine firing, process 500 was the turbine and duct burner both firing natural gas, and 600 was the turbine firing number 2 fuel oil and the duct burner firing either natural gas or number 2 fuel oil. Processes 300 and 400 have not been included in the permit because it is not possible to operate the duct burners without the turbine. Conditions and limits associated with processes 300 and 400 have been included in processes 500 and 600 respectively. Exempt sources at this facility include unit heaters, a diesel engine, a three cell wet cooling tower, a fuel oil storage tank, and a pressurized ammonia storage tank.

This Title V permit includes special conditions that the company proposed, and where accepted by the Department and EPA, when the facility was constructed in 1992-93 to avoid obtaining a Prevention of Significant Deterioration (PSD) permit. The special conditions were modified on February 12, 1997, to lower the carbon monoxide concentration limits on the duct burner, firing both fuels. The conditions resulted from reviews of; 40 CFR 60 Subpart A, General Provisions of New Source Performance Standards (NSPS); 40 CFR 52.21, Prevention of Significant Deterioration of Air Quality; 40 CFR 60 Subpart Da, NSPS for Electrical Utility Steam Generating Units for Which Construction is Commenced After September 1978 (> 250 mmBtu/hr); 40 CFR 60 Subpart Db, NSPS for Industrial-Commercial-Institutional Steam Generating Units (100 to 250 mmBtu/hr); 40 CFR 60 Subpart GG, NSPS for Stationary Gas Turbines; and 6 NYCRR 227 Subpart 2, Reasonably Available Control Technology for

Oxides of Nitrogen.



## New York State Department of Environmental Conservation

Permit ID: 7034600003

Many conditions in the February 12, 1997 PSD avoidance permit were taken from 40 CFR 60 Subparts A, Db and GG. Most of the special conditions from the PSD avoidance permit are included in this permit where they originated.

The facility conducted source sampling after startup to demonstrate compliance with the limits in the PSD avoidance permit. The test results showed the facility was operating in compliance. Since Subparts Db and GG do not contain applicable limits for ammonia, the limits have not been included in this Title V permit at EU 00001. The permit does contain a sulfur in fuel limit, and emission limits for NO<sub>x</sub>, CO, opacity, particulates, PM-10 and volatile organic compounds. The emission limits accepted by the company to avoid PSD permitting actually limit the potential to emit CO to 156.6 tons per year (tpy), NO<sub>x</sub> to 125.3 tpy, and sulfur dioxide to 138.0 tpy. These facility emission limits are included in this permit. All records must be kept for 5 years pursuant to 6 NYCRR Subpart 201 - 6.

When different rules had emission limits for the same contaminant or surrogate the most stringent one was included in the permit. Typically the limits to avoid PSD are the most stringent. These limits were commonly stated in two of the following units, part per million (ppm), lb/mmBtu or lb/hour. Limits for the same contaminant with different units have been incorporated in this permit.

The heat input to the Duct Burner is limited to less than 250 mmBtu/hr to avoid 40 CFR 60 Subpart Da, and to avoid a more stringent NO<sub>x</sub> RACT limit in NYCRR 227-2. However 40 CFR 60 Subpart Db, and the Duct Burner.

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 December 7, 1992 in a letter to James D. Hess of Indeck. This variance required Indeck to monitor the sulfur and nitrogen content of natural gas, which is delivered via pipeline, quarterly. If an 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. A July 2, 1998 response from Mr. Kenneth Eng, of EPA, regarding the Indeck-Corinth Energy Center gave three options the facility could implement in lieu of water-to-fuel monitoring. Option One: "Through your permit process, your facility can select the most stringent of the NSPS or PSD NO<sub>x</sub> limits. This limit would demonstrate compliance for both the gas turbine and the duct burner. Exceeding this limit would result in a violation of NO<sub>x</sub> limits for both the turbine and the duct burner."

In a October 19, 1998 letter, Indeck selected option 1 for all their facilities, so the 60.334(c)(1) citation was modified as such. Therefore, Indeck Olean accepts the most stringent NO<sub>x</sub> limit at the GT/DB stack, which came from PSD review, of 9 ppmv @ 15% O<sub>2</sub> while firing natural gas (processes 100 and 500) and 18 ppmv @ 15% O<sub>2</sub> while firing distillate oil (process 200 and 600). If the CEMS at the stack show NO<sub>x</sub> emissions greater than the limits set, they shall be considered excess emissions at both the turbine and duct burner as reported as such.

Only natural gas and number 2 fuel oil may be combusted in the gas turbine and duct burner. The sulfur

**New York State Department of Environmental Conservation**



**ID: 7034600003**

content of the fuel combusted at the facility is limited to 0.25%. Fuel oil may not be combusted in the gas turbine and duct burner for more than 1,440 hours per year, total. The gas turbine may not combust more than 4.94 million gallons of fuel oil per year, and the duct burner may not combust more than 2.45 million gallons of fuel oil per year, based on daily rolling totals.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions part of this permit.

nit Administrator:

DAVID S DENK  
DIVISION OF ENVIRONMENTAL PERMITS  
270 MICHIGAN AVE  
BUFFALO, NY 14203-2999

horized Signature:

\_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_\_

**New York State Department of Environmental Conservation**



**ID: 7034600003**

**ation 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.

**ctors 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 on not a party to the permit.

**New York State Department of Environmental Conservation**

**Permit ID: 7034600003**



**LIST OF CONDITIONS**

**GENERAL CONDITIONS**

**General Provisions**

Inspection by the Department

Relationship of this Permit to Other Department Orders and Determinations

Inspection by the Department

Renewals and Modifications

Renewals and Modifications

Permit Modifications, Suspensions and Revocations by the Department

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.**

**Condition 1: Facility Inspection by the Department**  
**Applicable State Requirement: ECL 3-0301.2(g)**

**Expired by Mod No: 1**

**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 1-2: Facility Inspection by the Department**  
**Applicable State Requirement: ECL 19-0305.**

**Item 1-2.1:**

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 1-2.2:**

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 1-2.3:**



**New York State Department of Environmental Conservation**  
**Facility DEC ID: 7034600003**

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 or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**Condition 1-1: Applications for Permit Renewals and Modifications**  
**Applicable State Requirement: 6NYCRR 621.13**

**Item 1-1.1:**

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 1-1.2:**

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.

**Item 1-1.3:**

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

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

**Expired by Mod No: 1**

**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 1-3: Permit Modifications, Suspensions and Revocations by the Department**  
**Applicable State Requirement: 6NYCRR 621.14**

**Item 1-3.1:**

The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;



**New York State Department of Environmental Conservation**  
**Facility DEC ID: 7034600003**

e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

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

**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:

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



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

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

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

**IDENTIFICATION INFORMATION**

Permit Issued To: INTELICOAT TECHNOLOGIES AZON LLC  
701 AZON ROAD  
JOHNSON CITY, NY 13790

Contact: CARL ERNST  
INTELICOAT TECHNOLOGIES AZON LLC  
701 AZON ROAD  
JOHNSON CITY, NY 13790  
(607) 797-2368

Facility: INDECK OLEAN ENERGY CENTER  
140 MOORE AVENUE  
OLEAN, NY 14760

Contact: TIMOTHY J ARNOLD  
INTELICOAT TECHNOLOGIES AZON LLC  
701 AZON ROAD  
JOHNSON CITY, NY 13790-0290  
(607) 797-2368

Authorized Activity By Standard Industrial Classification Code:



**LIST OF CONDITIONS**

**FEDERALLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 5 Contaminant List
- 27 Emission Unit Definition
  - 1-1 Recordkeeping and reporting of compliance monitoring
  - 1-2 Monitoring, Related Recordkeeping, and Reporting Requirements.
  - 1-3 Compliance Certification
  - 1-4 Compliance Certification
- 29 Compliance Certification
- 30 Recordkeeping requirements
- 33 Facility Permissible Emissions
  - 1-5 Compliance Certification
  - 1-6 Accidental release provisions.
  - 1-7 Recycling and Emissions Reduction

**Emission Unit Level**

- 34 Emission Point Definition By Emission Unit
- 35 Process Definition By Emission Unit
- 37 Compliance Certification (EU=O-00001)
- 38 Compliance Certification (EU=O-00001)
- 39 Compliance Certification (EU=O-00001)
- 40 Compliance Certification (EU=O-00001)
- 41 Compliance Certification (EU=O-00001)
- 42 Compliance Certification (EU=O-00001)
- 43 Compliance Certification (EU=O-00001)
- 44 EPA Region 2 address.
- 45 Recordkeeping requirements.
- 46 Excess emissions report.
- 94 Excess emissions report.
- 47 Opacity standard compliance testing.
- 48 Compliance Certification (EU=O-00001)
- 49 Compliance Certification (EU=O-00001)
- 50 Compliance Certification (EU=O-00001)
- 51 Compliance Certification (EU=O-00001)
- 52 Compliance Certification (EU=O-00001)
- 53 Compliance Certification (EU=O-00001)
- 54 Compliance Certification (EU=O-00001)
- 55 Compliance Certification (EU=O-00001)
- 56 Compliance Certification (EU=O-00001)
- 57 Particulate matter and opacity exemption.
- 58 Compliance Certification (EU=O-00001)
- 59 Compliance Certification (EU=O-00001)
- 60 Compliance Certification (EU=O-00001)
- 61 Compliance Certification (EU=O-00001)
- 62 Compliance Certification (EU=O-00001)

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



- 63 Opacity monitoring requirements.
- 64 Oxides of nitrogen monitoring requirements.
- 65 Compliance Certification (EU=O-00001)
- 66 Compliance Certification (EU=O-00001)
- 67 Use of alternative methods for measuring NOx during CEMS downtime
- 68 Compliance Certification (EU=O-00001)
- 69 Compliance Certification (EU=O-00001)
- 70 Compliance Certification (EU=O-00001)
- 71 Compliance Certification (EU=O-00001)
- 72 Compliance Certification (EU=O-00001)
- 73 Compliance Certification (EU=O-00001)
- 74 Compliance Certification (EU=O-00001)
- 75 Compliance Certification (EU=O-00001)
- 76 Compliance Certification (EU=O-00001)
- 77 Compliance Certification (EU=O-00001)
- 78 EPA variance for monitoring sulfur and nitrogen content of fuel.
- 79 Compliance Certification (EU=O-00001)
- 80 Compliance Certification (EU=O-00001)
- 81 Compliance Certification (EU=O-00001)
- 82 Compliance Certification (EU=O-00001)
- 83 Compliance Certification (EU=O-00001)
- 84 Compliance Certification (EU=O-00001)
- 85 Compliance Certification (EU=O-00001)
- 86 Compliance Certification (EU=O-00001)
- 87 Compliance Certification (EU=O-00001)
- 88 Acceptable test methods
- 89 Nitrogen oxides emission rate calculation
- 90 Compliance Certification (EU=O-00001)
- 91 Compliance Certification (EU=O-00001)
- 92 Methods for determining compliance with the sulfur content standard
- 93 Requirement for analysis of Nitrogen and Sulfur in fuel
- 95 Compliance Certification (EU=O-00001,EP=00001,Proc=100)
- 96 Compliance Certification (EU=O-00001,EP=00001,Proc=100)
- 97 Compliance Certification (EU=O-00001,EP=00001,Proc=100)
- 98 Compliance Certification (EU=O-00001,EP=00001,Proc=100)
- 99 Compliance Certification (EU=O-00001,EP=00001,Proc=100)
- 100 Compliance Certification (EU=O-00001,EP=00001,Proc=100)
- 101 Compliance Certification (EU=O-00001,EP=00001,Proc=100)
- 102 Compliance Certification (EU=O-00001,EP=00001,Proc=200)
- 103 Compliance Certification (EU=O-00001,EP=00001,Proc=200)
- 104 Compliance Certification (EU=O-00001,EP=00001,Proc=200)
- 105 Compliance Certification (EU=O-00001,EP=00001,Proc=200)
- 106 Compliance Certification (EU=O-00001,EP=00001,Proc=200)
- 107 Compliance Certification (EU=O-00001,EP=00001,Proc=200)
- 108 Compliance Certification (EU=O-00001,EP=00001,Proc=200)
- 109 Compliance Certification (EU=O-00001,EP=00001,Proc=200)
- 110 Compliance Certification (EU=O-00001,EP=00001,Proc=200)
- 1-8 Compliance Certification (EU=O-00001,EP=00001,Proc=500)



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

- 1-9 Compliance Certification (EU=O-00001,EP=00001,Proc=500)
- 111 Compliance Certification (EU=O-00001,EP=00001,Proc=500)
- 112 Compliance Certification (EU=O-00001,EP=00001,Proc=500)
- 113 Compliance Certification (EU=O-00001,EP=00001,Proc=500)
- 114 Compliance Certification (EU=O-00001,EP=00001,Proc=500)
- 115 Compliance Certification (EU=O-00001,EP=00001,Proc=500,ES=000DB)
- 116 Compliance Certification (EU=O-00001,EP=00001,Proc=500,ES=000DB)
- 117 Compliance Certification (EU=O-00001,EP=00001,Proc=500,ES=000DB)
- 118 Compliance Certification (EU=O-00001,EP=00001,Proc=500,ES=000DB)
- 119 Compliance Certification (EU=O-00001,EP=00001,Proc=500,ES=000DB)
- 120 Compliance Certification (EU=O-00001,EP=00001,Proc=500,ES=000DB)
- 121 Compliance Certification (EU=O-00001,EP=00001,Proc=500,ES=000DB)
- 122 Compliance Certification (EU=O-00001,EP=00001,Proc=500,ES=000DB)
- 123 Compliance Certification (EU=O-00001,EP=00001,Proc=600)
- 124 Compliance Certification (EU=O-00001,EP=00001,Proc=600)
- 125 Compliance Certification (EU=O-00001,EP=00001,Proc=600)
- 126 Compliance Certification (EU=O-00001,EP=00001,Proc=600)
- 127 Compliance Certification (EU=O-00001,EP=00001,Proc=600)
- 128 Compliance Certification (EU=O-00001,EP=00001,Proc=600,ES=000DB)
- 129 Compliance Certification (EU=O-00001,EP=00001,Proc=600,ES=000DB)
- 130 Compliance Certification (EU=O-00001,EP=00001,Proc=600,ES=000DB)
- 131 Compliance Certification (EU=O-00001,EP=00001,Proc=600,ES=000DB)
- 132 Compliance Certification (EU=O-00001,EP=00001,Proc=600,ES=000DB)
- 133 Compliance Certification (EU=O-00001,EP=00001,Proc=600,ES=000DB)
- 134 Compliance Certification (EU=O-00001,EP=00001,Proc=600,ES=000DB)
- 135 Compliance Certification (EU=O-00001,EP=00001,Proc=600,ES=000DB)
- 136 Compliance Certification (EU=O-00001,EP=00001,Proc=600,ES=000DB)
- 137 Compliance Certification (EU=O-00001,EP=00001,Proc=600,ES=000GT)

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 1-10 Contaminant List
- 1-11 Unavoidable noncompliance and violations
- 139 Air pollution prohibited
- 4911 - ELECTRIC SERVICES

Mod 0 Permit Effective Date: 10/27/1998

Permit Expiration Date: 10/27/2003

Mod 1 Permit Effective Date: 10/29/2002

Permit Expiration Date: 10/27/2003



**FEDERALLY ENFORCEABLE CONDITIONS**

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.**

**Item A: Sealing - 6NYCRR Part 200.5**

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 labeling 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 associated with such source.

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.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

**Item B: Acceptable Ambient Air Quality - 6NYCRR Part 200.6**

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.

**Item C: Maintenance of Equipment - 6NYCRR Part 200.7**

Any person who owns or operates an air contamination

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



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.

**Item D: Unpermitted Emission Sources - 6NYCRR Part 201-1.2**

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:

(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.

**Item E: Emergency Defense - 6NYCRR Part 201-1.5**

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 cause(s) 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 requirements 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

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



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.

**Item F: Recycling and Salvage - 6NYCRR Part 201-1.7**

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.

**Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6NYCRR Part 201-1.8**

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 outdoor atmosphere.

**Item H: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 201-1.10(b)**

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 and Section 114(c) of the Act.

**Item I: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR Part 201-3.2(a)**

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

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



requirements, regulations, or law.

- Item J: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR Part 201-3.3(a)**  
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.
- Item K: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)**  
Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.
- Item L: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)**  
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- Item M: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)**  
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Item N: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission**

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



**Requirements - 6 NYCRR Part 201-6.5(a)(3)**

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 stay any permit condition.

**Item O: Providing Information Upon Request - 6 NYCRR Part 201-6.5(a)(4)**

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.

**Item P: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR Part 201-6.5(a)(5)**

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.

**Item Q: Property Rights - 6 NYCRR Part 201-6.5(a)(6)**

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

**Item R: Fees - 6 NYCRR Part 201-6.5(a)(7)**

The owner and/or operator of a stationary source shall pay fees to the department consistent with the fee schedule authorized by 6 NYCRR Subpart 482-2.

**Item S: Right to Inspect - 6 NYCRR Part 201-6.5(a)(8)**

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

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



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.

**Item T: Severability - 6 NYCRR Part 201-6.5(a)(9)**

If any 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.

**Item U: Progress Reports and Compliance Schedules - 6 NYCRR Part 201-6.5(d)(5)**

Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually on a calendar year basis, 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.

**Item V: Off Permit Changes - 6 NYCRR Part 201-6.5(f)(6)**

No permit revision will be required for operating changes that contravene an express permit term, provided that such

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the Administrator and the Department with written notification in advance of the proposed changes within a minimum of 7 days as required by 6 NYCRR §201-6.5(f)(6).

**Item W: Permit Shield - 6 NYCRR Part 201-6.5(g)**

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. 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 or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



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.

**Item X: Reopening for Cause - 6 NYCRR Part 201-6.5(i)**

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.

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.

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

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



a shorter time period in the case of an emergency.

**Item Y: Required Emission Tests - 6 NYCRR Part 202-1.1**

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 specified in 6NYCRR Part 202-1.

**Item Z: Visible Emissions Limited - 6 NYCRR Part 211.3**

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.

**Item AA: Open Fires - 6 NYCRR Part 215**

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.

**Item BB: Permit Exclusion - ECL 19-0305**

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

**Item CC: Federally Enforceable Requirements - 40 CFR 70.6(b)**

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



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 only state regulations.

**FEDERAL APPLICABLE REQUIREMENTS**

**The following conditions are subject to annual compliance certification requirements for Title V permits only.**

**Condition 5: Contaminant List**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 6NYCRR 201-1.1(a)**

Applicaton Specific Data

**Condition 27: Emission Unit Definition**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 27.1(From Mod 1):**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: O-00001

Emission Unit Description:

This emission unit consists of a combustion gas turbine generator, heat recovery steam generator with duct burner and a selective catalytic reduction system venting into one stack. The gas turbine and duct burner only fire natural gas and/or #2 fuel oil.

Building(s): 1

**Condition 1-1: Recordkeeping and reporting of compliance monitoring**  
**Effective between the dates of 10/29/2002 and 10/27/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.5(c)**

**Item 1-1.1:**

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

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



- (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 a responsible official, consistent with Section 201-6.3 of this Part 201.

**Condition 1-2: Monitoring, Related Recordkeeping, and Reporting Requirements.**

**Effective between the dates of 10/29/2002 and 10/27/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.5(c)(2)**

**Item 1-2.1:**

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, 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.

**Condition 1-3: Compliance Certification**

**Effective between the dates of 10/29/2002 and 10/27/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.5(c)(3)(ii)**

**Item 1-3.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 1-3.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Submit reports of any required monitoring at a minimum

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



frequency of every 6 months, based on a calendar year reporting schedule. 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.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

(1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.

(2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.

(3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Mailing addresses for the above referenced persons are contained



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

in the monitoring condition for 6 NYCRR Part 201-6.5(e),  
contained elsewhere in this permit.

Monitoring Frequency: AS REQUIRED - SEE MONITORING  
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2003.

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

**Condition 1-4: Compliance Certification**  
**Effective between the dates of 10/29/2002 and 10/27/2003**

**Applicable Federal Requirement: 6NYCRR 201-6.5(e)**

**Item 1-4.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 1-4.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications 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;
  - the 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. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards,

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All compliance certifications shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2  
Air Compliance Branch  
290 Broadway  
New York, NY 10007-1866

The address for the RAPCE is as follows:

270 Michigan Avenue  
Buffalo, NY 14203-2999

The address for the BCME is as follows:

NYSDEC  
Bureau of Compliance Monitoring  
and Enforcement  
625 Broadway  
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2003.

Subsequent reports are due on the same day each year



**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003

**Condition 29: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**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.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

**Condition 30: Recordkeeping requirements**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**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.

**Condition 33: Facility Permissible Emissions**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

Applicaton Specific Data

**Condition 1-5: Compliance Certification**  
**Effective between the dates of 10/29/2002 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



**Item 1-5.1:**

The Compliance Certification activity will be performed for the facility:  
The Compliance Certification applies to:

Emission Unit: O-00001

**Item 1-5.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

- 1) The gas turbine may operate at Peak Load (108% of base load), but not for more than 500 hours during any consecutive 365 day period.
- 2) Daily, record what hours the turbine operates at peak load, and calculate the previous 365 day total hours of peak load operation.
- 3) Quarterly, report the total hours the turbine operated at peak load during the previous 365 day period, totaled daily.

Parameter Monitored: ENGINE OPERATION

Upper Permit Limit: 500 hours

Monitoring Frequency: HOURLY

Averaging Method: ANNUAL TOTAL ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2003.

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

**Condition 1-6: Accidental release provisions.**

**Effective between the dates of 10/29/2002 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 68.**

**Item 1-6.1:**

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit (if not previously submitted) one of the following if such quantities are present at the time of permit issuance:



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

- 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
- 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

USEPA Region 2  
Air Compliance Branch  
290 Broadway  
New York, NY 10007-1866  
ATTN: Accidental Release Program contact

**Condition 1-7: Recycling and Emissions Reduction**  
**Effective between the dates of 10/29/2002 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 82, Subpart F**

**Item 1-7.1:**

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

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

**Condition 34: Emission Point Definition By Emission Unit**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 34.1(From Mod 0):**

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

Emission Unit: O-00001

Emission Point: 00001

Height (ft.): 175

Diameter (in.): 120

NYTMN (km.): 4665.02    NYTME (km.): 214.229    Building: 1

**Condition 35: Process Definition By Emission Unit**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 35.1(From Mod 1):**

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

Emission Unit: O-00001

Process: 100

Source Classification Code: 2-02-002-03



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Process Description:

GE Frame 6 combustion gas turbine firing on natural gas,  
no duct burner firing.

Emission Source/Control: 00CGT - Combustion

Design Capacity: 535 million Btu per hour

Emission Source/Control: 00SCR - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: STEAM - Control

Control Type: STEAM OR WATER INJECTION

**Item 35.2(From Mod 1):**

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

Emission Unit: O-00001

Process: 200

Source Classification Code: 2-02-001-03

Process Description:

GE Frame 6 combustion gas turbine firing on distillate  
oil, no duct burner firing.

Emission Source/Control: 00CGT - Combustion

Design Capacity: 535 million Btu per hour

Emission Source/Control: 00SCR - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: STEAM - Control

Control Type: STEAM OR WATER INJECTION

**Item 35.3(From Mod 1):**

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

Emission Unit: O-00001

Process: 500

Source Classification Code: 2-02-002-03

Process Description:

GE Frame 6 combustion gas turbine and duct burner both  
firing natural gas.

Emission Source/Control: 000DB - Combustion

Design Capacity: 249 million Btu per hour

Emission Source/Control: 00CGT - Combustion

Design Capacity: 535 million Btu per hour

Emission Source/Control: 00SCR - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



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

**Item 35.4(From Mod 1):**

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

Emission Unit: O-00001

Process: 600

Source Classification Code: 2-02-001-03

Process Description:

GE Frame 6 combustion gas turbine firing distillate oil  
and the duct burner firing either natural gas or  
distillate oil.

Emission Source/Control: 000DB - Combustion

Design Capacity: 249 million Btu per hour

Emission Source/Control: 00CGT - Combustion

Design Capacity: 535 million Btu per hour

Emission Source/Control: 00SCR - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: STEAM - Control

Control Type: STEAM OR WATER INJECTION

**Condition 37: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 6NYCRR 227-1.2(a)(1)**

**Item 37.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 37.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emissions from from firing distillate oil in  
the gas turbine and the turbine and duct burner  
combination shall not exceed 0.10 lbs/mmBtu. Periodic  
monitoring through stack testing shall be done upon



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

written request of the Department.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: 40 CFR 60 App. A

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 38: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 38.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 38.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which emits smoke the shade or appearance of which is equal to or greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. The facility shall use the continuous opacity monitoring system (COMS) installed on the combustion installation emission source to continuously monitor stack opacity.

The facility has requested and has been granted the above opacity standard which is less stringent than the opacity standard of subdivision (a) of NYCRR 227-1.3 for a stationary combustion installation because:

- 1.) The combustion installation meets the eligibility requirement of having a maximum operating heat input greater than 50 million Btu per hour.
- 2.) The combustion installation emission sources at the facility have been tested and demonstrated compliance with all applicable emission standards.
- 3.) All associated emission control equipment is operated and maintained in a manner acceptable to the

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



commissioner.

- 4.) The stationary combustion installation has applied Best Available Control Technology (BACT).
- 5.) The equivalent opacity standard is consistent with EPA Method 9 and 40 CFR 60 "Standards of Performance for New Stationary Sources".
- 6.) The facility has installed a COMS on the combustion installation emission source as required by 40 CFR 60.43b(f), NSPS for Industrial-Commercial-Institutional Steam Generating Units (100-<250 mmBtu/hr).

Manufacturer Name/Model Number: CISCO  
Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: App. B Perf. Spec 1  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 6 MINUTE AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 39: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 39.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 39.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

1. 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 to NYSDEC approval.
2. All emission limits based on heat input shall correspond to the higher heating value (HHV) of fuel burned.



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

3. Emission limits apply at all loads of operation except during periods of startup and shutdown, not to exceed three hours per occurrence.
4. Combustion inlet air temperature must be continuously measured and recorded. Measurements shall be accurate to within +/- 3 degrees Fahrenheit.
5. The gas turbine may not operate below 80% load except during periods of startup or shutdown. 80% load corresponds to 26.6 MW (gas firing at 48 degrees Fahrenheit). Figure 1 correlates this limit to the current combustion inlet air temperature.
6. The continuous emission monitoring systems (CEMS) shall meet the requirements of 40 CFR 60 Appendix B and F, the NESCAUM Guidance Document for CEMS (September 1990), and the NYSDEC Air-Guide 34.
7. Indeck shall submit a quarterly written CEMS monitoring report to NYSDEC and EPA Region 2 for every calendar year quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter and shall conform with NYSDEC Air Guide 34 and 40 CFR Part 60.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 40: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 40.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 40.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Ammonia slip is monitored after the selective catalytic reactor (SCR) and used to operate the SCR effectively. The average ammonia emissions are recorded hourly.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 41: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 41.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 41.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Emissions of carbon monoxide from the facility shall be limited to 156.6 tons per year to avoid Prevention of Significant Air Quality (PSD) review under 40 CFR 52.21. The facility shall use results from the continuous emissions monitoring system (CEMS) to monitor compliance with this limit.

1) The actual emissions in pounds per hour shall be summed daily.

2) Emissions from the previous 365 day period shall be summed and computed on a daily basis.

Manufacturer Name/Model Number: CISCO

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 156.6 tons per year

Reference Test Method: 40CFR60 Append. B

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

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

**Condition 42: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 42.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

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

**Item 42.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Emissions of oxides of nitrogen from the facility shall be limited to 125.3 tons per year to avoid Prevention of Significant Air Quality (PSD) review under 40 CFR 52.21. The facility shall use results from the continuous emissions monitoring system (CEMS) to monitor compliance with this limit.

1) The actual emissions in pounds per hour shall be summed daily.

2) Emissions from the previous 365 day period shall be summed and computed on a daily basis.

Manufacturer Name/Model Number: CISCO

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 125.3 tons

Reference Test Method: 40CFR60 Append. B

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 43: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 43.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 43.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

This facility accepted a limit for sulfur in fuel oil of 0.25% to avoid Prevention of Significant Deterioration of Air Quality (PSD) applicability. This limit is more stringent than the 40 CFR 60.333(b) limit of 0.8% and the 40 CFR 60.42b(j) limit for very low sulfur oil of 0.5%, therefore, no owner or operator subject to the provisions of this subpart shall burn in any stationary gas turbine or duct burner any fuel which contains sulfur in excess of 0.25% by weight.

This facility received a variance from the Environmental Protection Agency (EPA) for monitoring fuel sulfur content. See conditions under 40 CFR 60.334(b)(1), NSPS Subpart GG for variance details.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.25 percent by weight

Reference Test Method: ASTM D 2880-71

Monitoring 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.

The initial report is due 1/30/1999.

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

**Condition 44: EPA Region 2 address.**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



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

**Item 44.1:**

This Condition applies to Emission Unit: O-00001

**Item 44.2:**

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

**Condition 45: Recordkeeping requirements.**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 45.1:**

This Condition applies to Emission Unit: O-00001

**Item 45.2:**

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.

**Condition 46: Excess emissions report.**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 46.1:**

This Condition applies to Emission Unit: O-00001

**Item 46.2:**



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

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.

**Condition 94: Excess emissions report.**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 94.1:**

This Condition applies to Emission Unit: O-00001

**Item 94.2:**

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 47: Opacity standard compliance testing.**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 47.1:**

This Condition applies to Emission Unit: O-00001

**Item 47.2:**

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.

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



**Condition 48: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 48.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 48.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

**Condition 49: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



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

**Item 49.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 49.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

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.

The initial report is due 1/30/1999.

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

**Condition 50: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 50.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 50.2:**

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.

The initial report is due 1/30/1999.

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

**Condition 51: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 51.1:**

The Compliance Certification activity will be performed for:

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Emission Unit: O-00001

**Item 51.2:**

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 shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, appendix B, of this part 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 this part. 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 paragraph (c) of this section at least 10 days before the performance test required under §60.8 is conducted.

(2) Except as provided in paragraph (c)(1) of this section, 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.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 52: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 52.1:**

Air Pollution Control Permit Conditions

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 52.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) 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.

(2) Unless otherwise approved by the Administrator, the following procedures shall be followed for continuous monitoring systems measuring opacity of emissions. Minimum procedures shall include a method for producing a simulated zero opacity condition and an upscale (span) opacity condition using a certified neutral density filter or other related technique to produce a known obscuration of the light beam. Such procedures shall provide a system check of the analyzer internal optical surfaces and all electronic circuitry including the lamp and photodetector assembly.

Monitoring Frequency: DAILY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 53: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



**Item 53.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 53.2:**

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 paragraph (d) of this section, 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 paragraph (c) of this section 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 paragraph (c) of this section 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.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 54: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 54.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 54.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

**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 recorder 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.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 55: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 55.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 55.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



very low sulfur oil shall demonstrate that the oil meets the definition of very low sulfur oil by following the monitoring procedures as described in §60.47b(b) to determine fuel oil sulfur content. §60.47b(b)(1) requires fuel oil samples to be collected in an as-fired condition at the inlet to the steam generating unit and analyzed for sulfur and heat content.

Very low sulfur oil means an oil that contains no more than 0.5 weight 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/million Btu) heat input.

To avoid PSD review the facility has agreed to use distillate fuel oil which contains no more than 0.25% sulfur.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 56: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 56.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 56.2:**

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 oil shall

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



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 on a continuous basis with a continuous opacity monitoring (COM) instrument installed and operated according to 40 CFR 60 Appendix B, Performance Specification 1.

Manufacturer Name/Model Number: CISCO  
Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: 40 CFR 60 Appen. B  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 6 MINUTE AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 57: Particulate matter and opacity exemption.  
Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.43b(g), NSPS Subpart Db**

**Item 57.1:**

This Condition applies to Emission Unit: O-00001

**Item 57.2:**

The particulate matter and opacity standards shall apply at all times, except during periods of startup, shutdown, or malfunction.

**Condition 58: Compliance Certification  
Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.44b(a)(4)(i), NSPS Subpart Db**

**Item 58.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

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

**Item 58.2:**

Compliance Certification shall include the following monitoring:

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING THE DUCT BURNER ONLY ONCE PER PERMIT TERM  
WHILE FIRING DISTILLATE OIL:

- 1.) Emissions of oxides of nitrogen (NO<sub>x</sub>) from the duct burner alone after control by selective catalytic reduction (SCR) while firing distillate oil shall not exceed 0.051 lb/mmBtu. The duct burner emission rate shall be computed by subtracting the measured emission rate while firing the turbine only from firing the turbine and duct burner.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for NO<sub>x</sub> 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 is more stringent than the rule and was established to avoid Prevention of Significant Air Quality (PSD) review under 40 CFR 52.21.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.051 pounds per million Btus

Reference Test Method: EPA Method 20

Monitoring Frequency: AS REQUIRED - SEE MONITORING  
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 59: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.44b(a)(4)(i), NSPS Subpart Db**

**Item 59.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

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

**Item 59.2:**

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING THE DUCT BURNER ALONE ONCE PER PERMIT TERM  
WHILE FIRING NATURAL GAS:

- 1.) Emissions of oxides of nitrogen (NO<sub>x</sub>) from the duct burner alone after control by selective catalytic reduction (SCR) while firing natural gas shall not exceed 0.025 lb/mmBtu. The duct burner emission rate shall be computed by subtracting the measured emission rate while firing the turbine only from firing the turbine and duct burner.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for NO<sub>x</sub> 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 is more stringent than the rule and was established to avoid Prevention of Significant Air Quality (PSD) review under 40 CFR 52.21.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.025 pounds per million Btus

Reference Test Method: EPA Method 20

Monitoring Frequency: AS REQUIRED - SEE MONITORING  
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 60: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.45b(j), NSPS Subpart Db**

**Item 60.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 60.2:**

Compliance Certification shall include the following monitoring:



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected facility that combusts very low sulfur oil is not subject to the compliance and performance testing requirements of this section if the owner or operator obtains fuel receipts as described in §60.49b(r).

Reference Test Method: ASTM D 1072-80

Monitoring 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.

The initial report is due 1/30/1999.

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

**Condition 61: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.46b(f), NSPS Subpart Db**

**Item 61.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

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

**Item 61.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To determine compliance with the emission limit for nitrogen oxides required by §60.44b(a)(4) for duct burners used in combined cycle systems, the owner or operator of an affected facility shall conduct the performance test required under §60.8 using the nitrogen oxides and oxygen measurement procedures in 40 CFR part 60 appendix A, Method 20. During the performance test, one sampling site shall be located as close as practicable to the exhaust of the turbine, as provided by section 6.1.1 of Method 20. A second sampling site shall be located at the outlet to the steam generating unit. Measurements of nitrogen oxides and oxygen shall be taken at both sampling sites during the performance test. The nitrogen oxides emission rate from



**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003

the combined cycle system shall be calculated by subtracting the nitrogen oxides emission rate measured at the sampling site at the outlet from the turbine from the nitrogen oxides emission rate measured at the sampling site at the outlet from the steam generating unit.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 62: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.47b(f), NSPS Subpart Db**

**Item 62.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 62.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected facility that combusts very low sulfur oil is not subject to the emission monitoring requirements of this section if the owner or operator obtains fuel receipts as described in §60.49b(r). Under §60.334(b), EPA granted the facility a variance for monitoring sulfur in fuel. See §60.334(b)(1) and b(2) monitoring conditions in this permit for monitoring details.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 63: Opacity monitoring requirements.**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.48b(a), NSPS Subpart Db**

**Item 63.1:**

This Condition applies to Emission Unit: O-00001

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



**Item 63.2:**

Facilities subject to section 40 CFR 60-Db.43b opacity standard must install, calibrate, maintain, operate, and record the data from a continuous opacity monitor.

**Condition 64: Oxides of nitrogen monitoring requirements.**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.48b(b), NSPS Subpart Db**

**Item 64.1:**

This Condition applies to Emission Unit: O-00001

**Item 64.2:**

Facilities subject to section 40 CFR 60-Db.44b shall install, calibrate, maintain, operate, and record the output from an oxides of nitrogen CEM.

**Condition 65: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.48b(c), NSPS Subpart Db**

**Item 65.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

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

**Item 65.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The continuous monitoring systems required under paragraph (b) of this section 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.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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



**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003

**Condition 66: Compliance Certification**  
Effective between the dates of 10/27/1998 and 10/27/2003

**Applicable Federal Requirement: 40CFR 60.48b(e)(2), NSPS Subpart Db**

**Item 66.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 66.2:**

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 contaminant being monitored.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 67: Use of alternative methods for measuring NO<sub>x</sub> during CEMS downtime**  
Effective between the dates of 10/27/1998 and 10/27/2003

**Applicable Federal Requirement: 40CFR 60.48b(f), NSPS Subpart Db**

**Item 67.1:**

This Condition applies to Emission Unit: O-00001

**Item 67.2:**

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.

**Condition 68: Compliance Certification**  
Effective between the dates of 10/27/1998 and 10/27/2003

**Applicable Federal Requirement: 40CFR 60.49b(d), NSPS Subpart Db**

**Item 68.1:**

The Compliance Certification activity will be performed for:

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Emission Unit: O-00001

**Item 68.2:**

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 distillate oil and natural gas 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: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 69: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.49b(f), NSPS Subpart Db**

**Item 69.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 69.2:**

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: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

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

**Condition 70: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.49b(g), NSPS Subpart Db**

**Item 70.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-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:

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 30-day average nitrogen oxides emission rates (ng/J or lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceeding 30 steam generating unit operating days.
- 4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emission standards under 40CFR60.44b, 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

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



- 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: DAILY  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 71: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.49b(i), NSPS Subpart Db**

**Item 71.1:**  
The Compliance Certification activity will be performed for:

Emission Unit: O-00001

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

**Item 71.2:**  
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 §60.48(b) shall submit a quarterly report containing the information recorded under paragraph (g) of this section. 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.



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

The initial report is due 1/30/1999.

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

**Condition 72: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.49b(r), NSPS Subpart Db**

**Item 72.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 72.2:**

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 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.

Reference Test Method: ASTM D 396-78

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 73: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 73.1:**

The Compliance Certification activity will be performed for:

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Emission Unit: O-00001

Regulated Contaminant(s):

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

**Item 73.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

- 1.) Emissions of oxides of nitrogen (NO<sub>x</sub>) from the gas turbine alone after control by selective catalytic reduction (SCR) while firing natural gas shall not exceed 9 ppmv (dry, corrected to 15% O<sub>2</sub>).
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for NO<sub>x</sub> 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 is more stringent than the rule and was established to avoid Prevention of Significant Air Quality (PSD) review under 40 CFR 52.21.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: EPA Method 20

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 74: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 74.1:**

The Compliance Certification activity will be performed for:

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Emission Unit: O-00001

Regulated Contaminant(s):

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

**Item 74.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING THE TURBINE ALONE ONCE PER PERMIT TERM  
WHILE FIRING DISTILLATE OIL:

- 1.) Emissions of oxides of nitrogen (NO<sub>x</sub>) from the gas turbine alone after control by selective catalytic reduction (SCR) while firing distillate oil shall not exceed 18 ppmv (dry, corrected to 15% O<sub>2</sub>).
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for NO<sub>x</sub> 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 is more stringent than the rule and was established to avoid Prevention of Significant Air Quality (PSD) review under 40 CFR 52.21.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 18 parts per million by volume (dry,  
corrected to 15% O<sub>2</sub>)

Reference Test Method: EPA Method 20

Monitoring Frequency: AS REQUIRED - SEE MONITORING  
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 75: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 75.1:**

The Compliance Certification activity will be performed for:

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Emission Unit: O-00001

Regulated Contaminant(s):

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

**Item 75.2:**

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)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 76: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 76.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 76.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

As a condition of this permit under §52.21, the facility is required to use very low sulfur distillate fuel oil containing no more than 0.25% sulfur by weight. This substantially exceeds the minimum sulfur in fuel requirement of §60.333(b) of 0.8%.

Work Practice Type: PARAMETER OF PROCESS MATERIAL



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Process Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.25 percent by weight

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.

The initial report is due 1/30/1999.

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

**Condition 77: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 77.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 77.2:**

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.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 78: EPA variance for monitoring sulfur and nitrogen content of fuel.**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

**Item 78.1:**

This Condition applies to Emission Unit: O-00001

**Item 78.2:**

EPA has granted the firm a variance for an alternate schedule for monitoring sulfur and nitrogen in fuel burned in the turbine by letter dated December 07, 1992. These requirements are contained in special conditions in this permit under 40 CFR 60-GG.334 (b1) and (b2) citations.

**Condition 79: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.334(b)(1), NSPS Subpart GG**

**Item 79.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

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

**Item 79.2:**

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.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 80: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



**Applicable Federal Requirement: 40CFR 60.334(b)(1), NSPS Subpart GG**

**Item 80.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 80.2:**

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 No. 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

Process Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.25 percent by weight

Monitoring 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.

The initial report is due 1/30/1999.

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

**Condition 81: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.334(b)(2), NSPS Subpart GG**



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

**Item 81.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 81.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

While using natural gas:

A. For the first six months after the receipt of the December 7, 1992 letter from EPA Regional Administrator, Constantine Sidamon-Eristoff, fuel sulfur content monitoring shall be conducted twice monthly. If the fuel sulfur content monitoring results show little variability and consistent compliance with 40 CFR 60-GG.333 respectively, then fuel sulfur content shall be monitored quarterly.

B. Should fuel sulfur monitoring, as required by item A. above, indicate noncompliance with 40 CFR 60-GG.333 the owner or operator shall notify EPA and New York State Department of Environmental Conservation (NYSDEC) within 15 calendar days of the occurrence(s). Fuel sulfur content monitoring shall be conducted weekly during the interim period while the custom schedule is being re-examined by EPA.

C. Records of fuel analysis and fuel supply pertinent to this alternative natural gas 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

Process Material: NATURAL GAS

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.25 percent by weight

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

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



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 82: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.334(b)(2), NSPS Subpart GG**

**Item 82.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

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

**Item 82.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

While using natural gas:

A. For the first six months after the receipt of the December 7, 1992 letter from EPA Regional Administrator, Constantine Sidamon-Eristoff, fuel nitrogen content monitoring shall be conducted twice monthly. If the fuel nitrogen content monitoring results show little variability and consistent compliance with 40 CFR 60-GG.332 respectively, then fuel nitrogen content shall be monitored quarterly.

B. Should fuel nitrogen monitoring, as required by item A. above, indicate noncompliance with 40 CFR 60-GG.332 the owner or operator shall notify EPA and New York State Department of Environmental Conservation (NYSDEC) within 15 calendar days of the occurrence(s). Fuel nitrogen content monitoring shall be conducted weekly during the interim period while the custom schedule is being re-examined by EPA.

C. Records of fuel analysis and fuel supply pertinent to this alternative natural gas 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.

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Monitoring Frequency: QUARTERLY  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 83: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.334(c)(1), NSPS Subpart GG**

**Item 83.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

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

**Item 83.2:**

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



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

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

Lower Permit Limit: 0.9 pounds of steam per pound of fuel

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 84: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.334(c)(2), NSPS Subpart GG**

**Item 84.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 84.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The purpose of reports required under §60.7(c), periods of excess emissions that shall be reported are any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.25 percent. The 0.25% sulfur limit is consistent with the exception limit for very low sulfur fuel oil contained in 40 CFR 60 Subpart Db and is required to avoid PSD permitting.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 85: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.334(c)(3), NSPS Subpart GG**

**Item 85.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 85.2:**

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.

The initial report is due 1/30/1999.

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

**Condition 86: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



**Item 86.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 86.2:**

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.

The initial report is due 1/30/1999.

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

**Condition 87: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 87.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Regulated Contaminant(s):

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

**Item 87.2:**

Compliance Certification shall include the following monitoring:



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

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.

The initial report is due 1/30/1999.

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

**Condition 88: Acceptable test methods**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 88.1:**

This Condition applies to Emission Unit: O-00001

**Item 88.2:**

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 89: Nitrogen oxides emission rate calculation**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 60.335(c)(1), NSPS Subpart GG**

**Item 89.1:**

This Condition applies to Emission Unit: O-00001

**Item 89.2:**

The owner or operator shall determine compliance with the nitrogen oxide (NOx) standard using the following equation:

$$\text{NOx} = (\text{NOx}_o) (\text{Pr}/\text{Po})^{0.5} e^{19(\text{Ho}-0.00633)} (288 \text{ degrees K}/\text{Ta})^{1.53}$$

Where:

NOx = emission rate of NOx at 15 % O2 and ISO standard ambient conditions, volume percent.

NOxo= observed NOx 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 H2O/g air.

e= 2.718

Ta=ambient temperature, degrees K.

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



**Condition 90: Compliance Certification**  
Effective between the dates of 10/27/1998 and 10/27/2003

**Applicable Federal Requirement: 40CFR 60.335(c)(2), NSPS Subpart GG**

**Item 90.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 90.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The monitoring device of §60.334(a) shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with §60.332 at 30, 50, 75, and 100 percent of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 91: Compliance Certification**  
Effective between the dates of 10/27/1998 and 10/27/2003

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

**Item 91.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

**Item 91.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Method 20 shall be used to determine the nitrogen oxides and oxygen concentrations. The span values shall be based on the emission limit for nitrogen oxide and 21 percent



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

oxygen. The NO<sub>x</sub> emissions shall be determined at each of the load conditions specified in paragraph §60.335(c)(2).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 92: Methods for determining compliance with the sulfur content standard  
Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 92.1:**

This Condition applies to Emission Unit: O-00001

**Item 92.2:**

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 93: Requirement for analysis of Nitrogen and Sulfur in fuel  
Effective between the dates of 10/27/1998 and 10/27/2003**

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

**Item 93.1:**

This Condition applies to Emission Unit: O-00001

**Item 93.2:**

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.

**Condition 95: Compliance Certification  
Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 95.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 100

Regulated Contaminant(s):  
CAS No: 0NY075-00-5 PM-10

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



**Item 95.2:**

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.) Emissions of PM-10 from the gas turbine alone while firing natural gas shall not exceed 0.0086 lb/mmBtu.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for PM-10 upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PM-10

Upper Permit Limit: 0.0086 pounds per million Btus

Reference Test Method: CFR52AppM201/202

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 96: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 96.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 100

Regulated Contaminant(s):  
CAS No: 0NY998-00-0 VOC

**Item 96.2:**

Compliance Certification shall include the following monitoring:

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



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.) Emissions of volatile organic compounds (VOCs) from the gas turbine alone 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 VOCs upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: VOC

Upper Permit Limit: 1.0 pounds per hour

Reference Test Method: EPA Method 25

Monitoring Frequency: ANNUALLY

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 97: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 97.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 100

Regulated Contaminant(s):  
CAS No: 0NY998-00-0 VOC

**Item 97.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING NATURAL

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



GAS. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

- 1.) Emissions of volatile organic compounds (VOCs) from the gas turbine alone while firing natural gas shall not exceed 0.002 lb/mmBtu.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for VOCs upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: VOC

Upper Permit Limit: 0.002 pounds per million Btus

Reference Test Method: EPA Method 25

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 98: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 98.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001

Process: 100

Regulated Contaminant(s):

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

**Item 98.2:**

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;



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

- 1.) Emissions of PM-10 from the gas turbine alone while firing natural gas shall not exceed 3.42 lb/hr.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for PM-10 upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PM-10

Upper Permit Limit: 3.42 pounds per hour

Reference Test Method: CFR52AppM201/202

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 99: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 99.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 100

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

**Item 99.2:**

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.) Emissions of particulates from the gas turbine alone while firing natural gas shall not exceed 3.42 lb/hr.



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 3.42 pounds per hour

Reference Test Method: EPA Method 5 or 17

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 100: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 100.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001

Process: 100

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 100.2:**

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.) Emissions of particulates from the gas turbine alone while firing natural gas shall not exceed 0.0086 lb/mmBtu.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request from the Department.

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



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

4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.0086 pounds per million Btus

Reference Test Method: EPA Method 5 or 17

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 101: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 101.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 100

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 TURBINE ALONE WHILE FIRING NATURAL GAS ONCE PER PERMIT TERM:

1.) Emissions of carbon monoxide (CO) from the gas turbine alone while firing natural gas shall not exceed 10 ppmv (dry, corrected to 15% O<sub>2</sub>).

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.

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 10 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: EPA Method 10

Monitoring Frequency: AS REQUIRED - SEE MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 102: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 102.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 200

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 102.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Fuel oil burning in the gas turbine is limited to 1440 hours per year.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 1440

Monitoring Frequency: HOURLY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 103: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 103.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001  
Process: 200

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

**Item 103.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

Total annual usage of number 2 fuel oil shall not exceed  
4.94 million gallons per year in the turbine.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NUMBER 2 OIL

Upper Permit Limit: 4940000 gallons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 104: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 104.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001  
Process: 200

Regulated Contaminant(s):  
CAS No: 0NY998-00-0    VOC

**Item 104.2:**

Compliance Certification shall include the following monitoring:

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING #2 FUEL OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

- 1.) Emissions of volatile organic compounds (VOCs) from the gas turbine alone while firing #2 fuel oil shall not exceed 0.005 lb/mmBtu.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for VOCs upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: VOC

Upper Permit Limit: 0.005 pounds per million Btus

Reference Test Method: EPA Method 25

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 105: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 105.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 200

Regulated Contaminant(s):  
CAS No: 0NY998-00-0 VOC

**Item 105.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING #2 FUEL

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

- 1.) Emissions of volatile organic compounds (VOCs) from the gas turbine alone while firing #2 fuel oil shall not exceed 2.5 lb/hr.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for VOCs upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: VOC

Upper Permit Limit: 2.5 pounds per hour

Reference Test Method: EPA Method 25

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 106: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 106.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001

Process: 200

Regulated Contaminant(s):

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

**Item 106.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING #2 FUEL OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

- 1.) Emissions of PM-10 from the gas turbine alone while firing #2 fuel oil shall not exceed 0.087 lb/mmBtu.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for PM-10 upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PM-10

Upper Permit Limit: 0.087 pounds per million Btus

Reference Test Method: CFR52AppM201/202

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 107: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 107.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 200

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

**Item 107.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING #2 FUEL OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

- 1.) Emissions of particulates from the gas turbine alone while firing #2 fuel oil shall not exceed 36.5 lb/hr.



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 36.5 pounds per hour

Reference Test Method: EPA Method 5 or 17

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 108: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 108.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001

Process: 200

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 108.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING #2 FUEL OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

1.) Emissions of particulates from the gas turbine alone while firing #2 fuel oil shall not exceed 0.087 lb/mmBtu.

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

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



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

4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.087 pounds per million Btus

Reference Test Method: EPA Method 5 or 17

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 109: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 109.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 200

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

**Item 109.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING #2 FUEL OIL ONCE PER PERMIT TERM:

1.) Emissions of carbon monoxide (CO) from the gas turbine alone while firing #2 fuel oil shall not exceed 10 ppmv (dry, corrected to 15% O<sub>2</sub>).

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.

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 10 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: EPA Method 10

Monitoring Frequency: AS REQUIRED - SEE MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 110: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 110.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 200

Regulated Contaminant(s):  
CAS No: 0NY075-00-5 PM-10

**Item 110.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING #2 FUEL OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

1.) Emissions of PM-10 from the gas turbine alone while firing #2 fuel oil shall not exceed 36.5 lb/hr.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for PM-10 upon written request from the Department.

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

4.) This limit was established to avoid Prevention of Significant Deterioration (PSD) new source review.

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Parameter Monitored: PM-10

Upper Permit Limit: 36.5 pounds per hour

Reference Test Method: CFR52AppM201/202

Monitoring Frequency: AS REQUIRED - SEE MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-8: Compliance Certification**

**Effective between the dates of 10/29/2002 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 1-8.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001

Process: 500

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 1-8.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

**PEAK LOAD OPERATION FOR THE TURBINE AND DUCT BURNER  
FIRING NATURAL GAS:**

1.) Under PEAK LOAD the 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 # 6) for the corresponding combustion air inlet temperature. The CO limit of 35.0 lb/hr corresponds to an inlet air temperature of 46 degrees F.

2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 4A in 40 CFR 60 Appendix B.

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

Manufacturer Name/Model Number: CISCO

Parameter Monitored: CARBON MONOXIDE



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Upper Permit Limit: 35.0 pounds per hour  
Reference Test Method: 40 CFR 60 Appen. B  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2003.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-9: Compliance Certification**  
**Effective between the dates of 10/29/2002 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 1-9.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 500

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

**Item 1-9.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

PEAK LOAD OPERATION FOR THE TURBINE AND DUCT BURNER  
FIRING NATURAL GAS:

- 1.) Under PEAK LOAD (108% of base load) the combined emissions of oxides of nitrogen (NO<sub>x</sub>) from the gas turbine and duct burner after control by selective catalytic reduction (SCR) while firing natural gas, shall not exceed the values from the attached performance curves (Figure # 6) for the corresponding combustion air inlet temperature. The NO<sub>x</sub> limit of 25.02 lb/hr corresponds to an inlet air temperature of 46 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.) Record keeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.

Manufacturer Name/Model Number: CISCO



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 25.02 pounds per hour  
Reference Test Method: 40 CFR 60 Appen. B  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2003.  
Subsequent reports are due every 3 calendar month(s).

**Condition 111: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 111.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 500

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

**Item 111.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes  
Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:  
NORMAL OPERATION FOR THE TURBINE AND DUCT BURNER FIRING  
ON NATURAL GAS:

- 1.) Emissions of oxides of nitrogen (NO<sub>x</sub>) shall not exceed 9 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.) This limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Manufacturer Name/Model Number: CISCO



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 9 parts per million by volume (dry,  
corrected to 15% O<sub>2</sub>)  
Reference Test Method: EPA Method 20  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 112: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 112.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 500

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

**Item 112.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes  
Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:  
NORMAL OPERATION FOR THE TURBINE AND DUCT BURNER FIRING  
ON NATURAL GAS:

- 1.) Emissions of carbon monoxide shall not exceed 21.7 ppmv (dry, corrected to 15% O<sub>2</sub>)
- 2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 4A in 40 CFR 60 Appendix B.
- 3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.
- 4.) This limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Manufacturer Name/Model Number: CISCO  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 21.7 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)  
Reference Test Method: EPA Method 10  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 113: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 113.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 500

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

**Item 113.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes  
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 # 4) under full load for the corresponding combustion air inlet temperature. The CO limit of 35.0 lb/hr corresponds to an inlet air temperature of 46 degrees F.
- 2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 4A in 40 CFR 60 Appendix B.
- 3.) Recordkeeping, reporting and monitoring shall be



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

conducted according to 60.7 and 60.13.

4.) This limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Manufacturer Name/Model Number: CISCO  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 35.0 pounds per hour  
Reference Test Method: 40 CFR 60 Appen. B  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 114: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 114.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 500

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

**Item 114.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes  
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 after control by selective catalytic reduction (SCR) while firing natural gas shall not exceed the values from the attached performance curves (Figure # 4) under full load for the corresponding combustion air inlet temperature. The NO<sub>x</sub> limit of 23.8 lb/hr corresponds to an inlet air temperature of 46 degrees F.

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



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.) This limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Manufacturer Name/Model Number: CISCO  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 23.8 pounds per hour  
Reference Test Method: 40 CFR 60 Appen. B  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 115: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 115.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001  
Process: 500                Emission Source: 000DB

Regulated Contaminant(s):  
CAS No: 0NY075-00-5    PM-10

**Item 115.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
STACK TESTING OF THE DUCT BURNER ALONE FIRING NATURAL GAS. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

1.) Emissions of PM-10 from the duct burner alone while firing natural gas shall not exceed 0.010 lb/mmBtu.

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for PM-10 upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PM-10

Upper Permit Limit: 0.010 pounds per million Btus

Reference Test Method: CFR52AppM201/202

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 116: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 116.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001  
Process: 500                Emission Source: 000DB

Regulated Contaminant(s):  
CAS No: 0NY998-00-0    VOC

**Item 116.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

- 1.) Emissions of volatile organic compounds (VOCs) from the duct burner alone while firing natural gas shall not exceed 9.0 lb/hr.
- 2.) The facility shall conduct periodic monitoring by

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



conducting a stack emission test for VOCs upon written request from the Department.

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

4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: VOC

Upper Permit Limit: 9.0 pounds per hour

Reference Test Method: EPA Method 25

Monitoring Frequency: AS REQUIRED - SEE MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 117: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 117.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001

Process: 500                      Emission Source: 000DB

Regulated Contaminant(s):

CAS No: 0NY998-00-0    VOC

**Item 117.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

1.) Emissions of volatile organic compounds (VOCs) from the duct burner alone while firing natural gas shall not exceed 0.036 lb/mmBtu.

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

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



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

4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: VOC

Upper Permit Limit: 0.036 pounds per million Btus

Reference Test Method: EPA Method 25

Monitoring Frequency: AS REQUIRED - SEE MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 118: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 118.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001

Process: 500 Emission Source: 000DB

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 118.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

1.) Emissions of particulates from the duct burner alone while firing natural gas shall not exceed 2.66 lb/hr.

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

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

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



Department approval.

4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 2.66 pounds per hour

Reference Test Method: EPA Method 5 or 17

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 119: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 119.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001

Process: 500 Emission Source: 000DB

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 119.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

1.) Emissions of particulates from the duct burner alone while firing natural gas shall not exceed 0.010 lb/mmBtu.

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

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



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.010 pounds per million Btus

Reference Test Method: EPA Method 5 or 17

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 120: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 120.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001

Process: 500 Emission Source: 000DB

Regulated Contaminant(s):

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

**Item 120.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

1.) Emissions of PM-10 from the duct burner alone while firing natural gas shall not exceed 2.66 lb/hr.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for PM-10 upon written request from the Department.

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

4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Parameter Monitored: PM-10

Upper Permit Limit: 2.66 pounds per hour

Reference Test Method: CFR52AppM201/202

Monitoring Frequency: AS REQUIRED - SEE MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 121: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 121.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001

Process: 500 Emission Source: 000DB

Regulated Contaminant(s):

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

**Item 121.2:**

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, FIRING NATURAL GAS:

1.) Emissions of oxides of nitrogen (NO<sub>x</sub>) from the duct burner alone while firing natural gas shall not exceed 0.025 lb/mmBtu.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for NO<sub>x</sub> 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.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Manufacturer Name/Model Number: CISCO



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.025 pounds per million Btus  
Reference Test Method: EPA Method 20  
Monitoring Frequency: AS REQUIRED - SEE MONITORING  
DESCRIPTION  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 122: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 122.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001  
Process: 500                Emission Source: 000DB

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

**Item 122.2:**

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, FIRING NATURAL GAS:

- 1.) Emissions of carbon monoxide (CO) 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 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.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Manufacturer Name/Model Number: CISCO  
Parameter Monitored: CARBON MONOXIDE



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA Method 10

Monitoring Frequency: AS REQUIRED - SEE MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 123: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 123.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001

Process: 600

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 123.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE TURBINE AND DUCT BURNER FIRING  
DISTILLATE OIL:

- 1.) Emissions shall not exceed 24 ppmv (dry, corrected to 15% O<sub>2</sub>).
- 2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 4A in 40 CFR 60 Appendix B.
- 3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.
- 4.) This limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Manufacturer Name/Model Number: CISCO

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 24 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Reference Test Method: EPA Method 10  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 124: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 124.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 600

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

**Item 124.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes  
Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:  
NORMAL OPERATION FOR THE TURBINE AND DUCT BURNER FIRING  
DISTILLATE OIL:

- 1.) Emissions shall not exceed 18 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.) This limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Manufacturer Name/Model Number: CISCO  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 18 parts per million by volume (dry,



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

corrected to 15% O<sub>2</sub>)

Reference Test Method: EPA Method 20

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 125: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 125.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001

Process: 600

Regulated Contaminant(s):

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

**Item 125.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE TURBINE AND DUCT BURNER FIRING  
DISTILLATE OIL:

1.) Combined emissions of oxides of nitrogen (NO<sub>x</sub>) from the gas turbine and duct burner after control by selective catalytic reduction (SCR) while firing distillate fuel oil 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 47.8 lb/hr corresponds to an inlet air temperature of 46 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.



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

4.) This limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Manufacturer Name/Model Number: CISCO  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 47.8 pounds per hour  
Reference Test Method: 40 CFR 60 Appen. B  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 126: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 126.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 600

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

**Item 126.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes  
Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:  
NORMAL OPERATION FOR THE TURBINE AND DUCT BURNER FIRING  
DISTILLATE OIL:

1.) Combined emissions of carbon monoxide (CO) from the gas turbine and duct burner while firing distillate oil 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 38.6 lb/hr corresponds to an inlet air temperature of 46 degrees F.

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



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

4A in 40 CFR 60 Appendix B.

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

4.) This limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Manufacturer Name/Model Number: CISCO  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 38.6 pounds per hour  
Reference Test Method: 40 CFR 60 Appen. B  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/1999.  
Subsequent reports are due every 3 calendar month(s).

**Condition 127: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 127.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001 Emission Point: 00001  
Process: 600

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

**Item 127.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes  
Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:  
Fuel oil burning in the gas turbine and the duct burner is limited to 1440 hours per year.

Work Practice Type: HOURS PER YEAR OPERATION  
Upper Permit Limit: 1440  
Monitoring Frequency: HOURLY  
Averaging Method: ANNUAL MAXIMUM ROLLED DAILY



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 128: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 128.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001

Process: 600    Emission Source: 000DB

Regulated Contaminant(s):

CAS No: 0NY075-00-5    PM-10

**Item 128.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE FIRING #2 FUEL OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

1.) Emissions of PM-10 from the duct burner alone while firing #2 fuel oil shall not exceed 7.76 lb/hr.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test for PM-10 upon written request from the Department.

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

4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PM-10

Upper Permit Limit: 7.76 pounds per hour

Reference Test Method: CFR52AppM201/202

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE



**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 129: Compliance Certification**

Effective between the dates of 10/27/1998 and 10/27/2003

Applicable Federal Requirement: 40CFR 52.21, Subpart A

**Item 129.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001  
Process: 600                      Emission Source: 000DB

Regulated Contaminant(s):  
CAS No: 0NY075-00-5    PM-10

**Item 129.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE FIRING #2 FUEL OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

- 1.) Emissions of PM-10 from the duct burner alone while firing #2 fuel oil shall not exceed 0.033 lb/mmBtu.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for PM-10 upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PM-10  
Upper Permit Limit: 0.033 pounds per million Btus  
Reference Test Method: CFR52AppM201/202  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 130: Compliance Certification**



**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 130.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001  
Process: 600                      Emission Source: 000DB

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

**Item 130.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE FIRING #2 FUEL OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

- 1.) Emissions of particulates from the duct burner alone while firing #2 fuel oil shall not exceed 7.76 lb/hr.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 7.76 pounds per hour

Reference Test Method: EPA Method 5 or 17

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 131: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**New York State Department of Environmental Conservation**

Permit ID: 9-0412-00042/00011

Facility DEC ID: 7034600003



**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 131.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001  
Process: 600                Emission Source: 000DB

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

**Item 131.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE FIRING #2 FUEL OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

- 1.) Emissions of particulates from the duct burner alone while firing #2 fuel oil shall not exceed 0.033 lb/mmBtu.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.033 pounds per million Btus

Reference Test Method: EPA Method 5 or 17

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 132: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

**Item 132.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001  
Process: 600                      Emission Source: 000DB

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

**Item 132.2:**

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, FIRING #2 FUEL OIL:

- 1.) Emissions of oxides of nitrogen (NOx) from the duct burner alone while firing #2 fuel oil shall not exceed 0.051 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.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Manufacturer Name/Model Number: CISCO  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.051 pounds per million Btus  
Reference Test Method: EPA Method 20  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 133: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 133.1:**



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001  
Process: 600                      Emission Source: 000DB

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

**Item 133.2:**

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, FIRING #2 FUEL OIL:

- 1.) Emissions of carbon monoxide (CO) from the duct burner alone while firing #2 fuel oil shall not exceed 0.12 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.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Manufacturer Name/Model Number: CISCO  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 0.12 pounds per million Btus  
Reference Test Method: EPA Method 10  
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 134: Compliance Certification**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 134.1:**

The Compliance Certification activity will be performed for:

**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**



Emission Unit: O-00001    Emission Point: 00001  
Process: 600    Emission Source: 000DB

Regulated Contaminant(s):  
CAS No: 0NY998-00-0    VOC

**Item 134.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE FIRING #2 FUEL OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

- 1.) Emissions of volatile organic compounds (VOCs) from the duct burner alone while firing #2 fuel oil shall not exceed 10.50 lb/hr.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for VOCs upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: VOC

Upper Permit Limit: 10.50 pounds per hour

Reference Test Method: EPA Method 25

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 135: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 135.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001    Emission Point: 00001



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Process: 600

Emission Source: 000DB

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 135.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE DUCT BURNER ALONE FIRING #2 FUEL OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT;

- 1.) Emissions of volatile organic compounds (VOCs) from the duct burner alone while firing #2 fuel oil shall not exceed 0.044 lb/mmBtu.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for VOCs upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval.
- 4.) The limit was established for the facility to avoid Prevention of Significant Deterioration (PSD) new source review.

Parameter Monitored: VOC

Upper Permit Limit: 0.044 pounds per million Btus

Reference Test Method: EPA Method 25

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 136: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 136.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001

Emission Point: 00001

Process: 600

Emission Source: 000DB



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 136.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Total annual usage of number 2 fuel oil shall not exceed 2.45 million gallons per year in the duct burner.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NUMBER 2 OIL

Upper Permit Limit: 2450000 gallons

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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

**Condition 137: Compliance Certification**

**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 137.1:**

The Compliance Certification activity will be performed for:

Emission Unit: O-00001      Emission Point: 00001

Process: 600      Emission Source: 000GT

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 137.2:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Total annual usage of number 2 fuel oil shall not exceed 4.94 million gallons per year in the turbine.

Work Practice Type: PROCESS MATERIAL THRUPUT



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

Process Material: NUMBER 2 OIL

Upper Permit Limit: 4940000 gallons

Monitoring Frequency: HOURLY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/1999.

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



**STATE ONLY ENFORCEABLE CONDITIONS**

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5**

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.

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.

**STATE ONLY APPLICABLE REQUIREMENTS**

**The following conditions are state only enforceable and are not subject to annual compliance certification requirements for Title V permits.**

**Condition 1-10: Contaminant List**

**Effective between the dates of 10/29/2002 and 10/27/2003**

**Applicable State Requirement: ECL 19-0301.**

**Item 1-10.1:**

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

CAS No: 000630-08-0  
Name: CARBON MONOXIDE

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

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

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

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

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

**Condition 1-11: Unavoidable noncompliance and violations**  
**Effective between the dates of 10/29/2002 and 10/27/2003**

**Applicable State Requirement: 6NYCRR 201-1.4**

**Item 1-11.1:**

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 issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. 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



**New York State Department of Environmental Conservation**

**Permit ID: 9-0412-00042/00011**

**Facility DEC ID: 7034600003**

of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(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 contaminants 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.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

**Condition 139: Air pollution prohibited**  
**Effective between the dates of 10/27/1998 and 10/27/2003**

**Applicable State Requirement: 6NYCRR 211.2**

**Item 139.1:**

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 combination with others.