

New York State Department of Environmental Conservation
Facility DEC ID: 443500008



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 4-4350-00008/00011
Mod 0 Effective Date: 04/12/2002 Expiration Date: No expiration date.
Mod 1 Effective Date: 10/20/2005 Expiration Date: No expiration date.

Permit Issued To: IROQUOIS GAS TRANSMISSION SYSTEM INC
ONE CORPORATE DR STE 606
SHELTON, CT 06484-6208

Contact: JAMES T BARNES
IROQUOIS PIPELINE OPERATING CO
ONE CORPORATE DR SUITE 600
SHELTON, CT 06484
(203) 944-7023

Facility: WRIGHT COMPRESSOR STATION
WESTFALL ROAD
WRIGHT, NY

Description:

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 included as part of this permit.

Permit Administrator: KENT P SANDERS
65561 STATE HIGHWAY 10
SUITE 1
STAMFORD, NY 12167

Authorized Signature: _____ Date: ___ / ___ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

Facility Inspection by the Department

Relationship of this Permit to Other Department Orders and Determinations

Applications for Permit Renewals and Modifications

Applications for Permit 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 4
SUBOFFICE



DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

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 or facility. 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 1-1: 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



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transfer of ownership.

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

Item 3.1:

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

Item 3.2:

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

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

Item 4.1:

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;
- 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 5: Permit Modifications, Suspensions, and Revocations by the Department
Applicable State Requirement: 6NYCRR 621.14

Item 5.1:

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 6: Submission of Applications for Permit Modification or Renewal -REGION 4
SUBOFFICE
Applicable State Requirement: 6NYCRR 621.5(a)**

Item 6.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 4 Sub-office
Division of Environmental Permits
65561 State Highway 10, Suite 1
Stamford, NY 12167-9503
(607) 652-7364



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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: IROQUOIS GAS TRANSMISSION SYSTEM INC
ONE CORPORATE DR STE 606
SHELTON, CT 06484-6208

Facility: WRIGHT COMPRESSOR STATION
WESTFALL ROAD
WRIGHT, NY

Authorized Activity By Standard Industrial Classification Code:
4922 - NATURAL GAS TRANSMISSION

Mod 0 Permit Effective Date: 04/12/2002

Permit Expiration Date: No expiration date.

Mod 1 Permit Effective Date: 10/20/2005

Permit Expiration Date: No expiration date.



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

1-1 40CFR 60.334(h)(3), NSPS Subpart GG: Compliance Demonstration

Emission Unit Level

EU=1-00001

15 40CFR 60.7(a), NSPS Subpart A: Date of construction notification.

16 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.

17 40CFR 60.8(b), NSPS Subpart A: Performance test methods.

18 40CFR 60.8(c), NSPS Subpart A: Required performance test information.

19 40CFR 60.8(d), NSPS Subpart A: Prior notice.

20 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.

21 40CFR 60.8(f), NSPS Subpart A: Number of required tests.

22 40CFR 60.332(a)(2), NSPS Subpart GG: Compliance Demonstration

23 40CFR 60.332(k), NSPS Subpart GG: Exemption from NOx standard.

24 40CFR 60.333, NSPS Subpart GG: Sulfur dioxide standard.

25 40CFR 60.333, NSPS Subpart GG: Sulfur in fuel standard.

1-2 40CFR 60.334(h)(2), NSPS Subpart GG: Compliance Demonstration

1-3 40CFR 60.334(h)(3), NSPS Subpart GG: Compliance Demonstration

1-4 40CFR 60.335(a), NSPS Subpart GG: Test methods and procedures for performance tests

1-6 40CFR 60.335(b), NSPS Subpart GG: Test methods and procedures for NOx emission testing

1-5 40CFR 60.335(c), NSPS Subpart GG: Test methods and procedures - Alternative method

EU=1-00001,EP=00001,Proc=001

34 6NYCRR 227-1.3(a): Compliance Demonstration

EU=1-00001,EP=00002,Proc=001

35 6NYCRR 227-1.3(a): Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

1-7 ECL 19-0301: Contaminant List

36 6NYCRR 201-1.4: Unavoidable noncompliance and violations

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41 6NYCRR 211.2: Air pollution prohibited

Emission Unit Level

42 6NYCRR 201-5: Emission Point Definition By Emission Unit

43 6NYCRR 201-5: Process Definition By Emission Unit



FEDERALLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. 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

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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



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occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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

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: 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 requirements, regulations, or law.

Item I: 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



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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 J: 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 K: 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 L: 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 M: 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

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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 N: Federally Enforceable Requirements - 40 CFR 70.6(b)

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 federally enforceable.

Condition 1-1: Compliance Demonstration

Effective between the dates of 10/20/2005 and Permit Expiration Date

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

Item 1-1.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 1-1.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Notwithstanding the provisions of paragraph (h)(1) of 40 CFR 60.334(h), the owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in §60.331(u), regardless of whether an existing custom schedule approved by the administrator for subpart GG requires such monitoring. The owner or operator shall use



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one of the following sources of information to make the required demonstration:

(i) The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or

(ii) Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to 40 CFR part 75 of this chapter is required.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2006.

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

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

Condition 15: Date of construction notification.

Effective between the dates of 04/12/2002 and Permit Expiration Date

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

Item 15.1:

This Condition applies to Emission Unit: 1-00001

Item 15.2:

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, post marked no later than 30 days after such date;
- 2) a notification of the anticipated date of initial start up, post marked not more than 60 days not less than 30 days prior to such date;
- 3) a notification of the actual date of initial start up, post marked within 15 days after such date;
- 4) a notification of any physical or operational change to an existing facility which may increase the



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emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under this part. The notice shall be post marked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;

5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, post marked not less than 30 days prior to such date;

6) a notification of the anticipated date for conducting the opacity observations, post marked not less than 30 days prior to such date; and

7) a notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during the performance test, post marked not less than 30 days prior to the performance test.

Condition 16: Performance testing timeline.

Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.8(a), NSPS Subpart A

Item 16.1:

This Condition applies to Emission Unit: 1-00001

Item 16.2:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Condition 17: Performance test methods.

Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.8(b), NSPS Subpart A

Item 17.1:

This Condition applies to Emission Unit: 1-00001

Item 17.2:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in this part or by alternative methods and procedures approved by the Administrator.

Condition 18: Required performance test information.

Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.8(c), NSPS Subpart A



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Item 18.1:

This Condition applies to Emission Unit: 1-00001

Item 18.2:

Performance tests shall be conducted under such conditions specified by the Administrator, based upon representative performance data supplied by the owner or operate of the facility.

Condition 19: Prior notice.

Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.8(d), NSPS Subpart A

Item 19.1:

This Condition applies to Emission Unit: 1-00001

Item 19.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 20: Performance testing facilities.

Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.8(e), NSPS Subpart A

Item 20.1:

This Condition applies to Emission Unit: 1-00001

Item 20.2:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 21: Number of required tests.

Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.8(f), NSPS Subpart A

Item 21.1:

This Condition applies to Emission Unit: 1-00001

Item 21.2:



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Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 22: Compliance Demonstration

Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.332(a)(2), NSPS Subpart GG

Item 22.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001

Regulated Contaminant(s):

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

Item 22.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No owner or operator shall discharge to the atmosphere from a stationary gas turbine, emissions of nitrogen oxides in excess of the following:

$$\text{STD} = 0.0150 * [(14.4) / Y] + F$$

Where: STD = allowable nitrogen oxide emissions in percent volume at 15% excess oxygen on a dry basis,

Y = manufacturer's rated heat rate at manufacturer's rated peak load (kilojoules per watt hour) or the actual measured heat rate based on the lower heating value of the fuel as measured at actual peak load of the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour,

F = nitrogen oxide emission allowance for fuel bound nitrogen:

Fuel bound nitrogen % by weight, where F equals NOx % by volume

$$N \leq 0.015 : F = 0$$

$$0.015 < N \leq 0.1 : 0.04(N)$$

$$0.1 < N \leq 0.25 : 0.004 + 0.0067(N - 0.1)$$

$$N > 0.25 : 0.005$$

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Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 150 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: EPA RM 20

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 23: Exemption from NO_x standard.
Effective between the dates of 04/12/2002 and Permit Expiration Date

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

Item 23.1:

This Condition applies to Emission Unit: 1-00001

Item 23.2:

Gas turbines \geq 10 mmBtu/hr heat input firing gas are exempt when firing an emergency fuel.

Condition 24: Sulfur dioxide standard.
Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.333, NSPS Subpart GG

Item 24.1:

This Condition applies to Emission Unit: 1-00001

Item 24.2:

No gas turbine shall emit sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen on a dry basis.

Condition 25: Sulfur in fuel standard.
Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.333, NSPS Subpart GG

Item 25.1:

This Condition applies to Emission Unit: 1-00001

Item 25.2:

No gas turbine shall fire a fuel with more than 0.80% sulfur content.

Condition 1-2: Compliance Demonstration
Effective between the dates of 10/20/2005 and Permit Expiration Date

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

Item 1-2.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001

Item 1-2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The owner or operator of any stationary gas turbine subject to the provisions of Subpart GG shall monitor the nitrogen content of the fuel combusted in the turbine, if the owner or operator claims an allowance for fuel bound nitrogen (i.e., if an F-value greater than zero is being or will be used by the owner or operator to calculate STD in §60.332). The nitrogen content of the fuel shall be determined using methods described in §60.335(b)(9) or an approved alternative.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NATURAL GAS

Parameter Monitored: NITROGEN

Upper Permit Limit: 0 percent by volume

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2006.

Subsequent reports are due every 12 calendar month(s).

Condition 1-3: Compliance Demonstration

Effective between the dates of 10/20/2005 and Permit Expiration Date

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

Item 1-3.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001

Item 1-3.2:

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Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Notwithstanding the provisions of paragraph (h)(1) of 40 CFR 60.334(h), the owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in §60.331(u), regardless of whether an existing custom schedule approved by the administrator for subpart GG requires such monitoring. The owner or operator shall use one of the following sources of information to make the required demonstration:

(i) The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less;
or

(ii) Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to 40 CFR part 75 of this chapter is required.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 1-4: Test methods and procedures for performance tests
Effective between the dates of 10/20/2005 and Permit Expiration Date**

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

Item 1-4.1:

This Condition applies to Emission Unit: 1-00001

Item 1-4.2:

The owner or operator shall conduct the performance tests required in §60.8, using either

(1) EPA Method 20,

(2) ASTM D6522-00 (incorporated by reference, see §60.17), or

(3) EPA Method 7E and either EPA Method 3 or 3A in appendix A to 40 CFR 60, to determine NOX



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and diluent concentration.

(4) Sampling traverse points are to be selected following Method 20 or Method 1, (non-particulate procedures) and sampled for equal time intervals. The sampling shall be performed with a traversing single-hole probe or, if feasible, with a stationary multi-hole probe that samples each of the points sequentially. Alternatively, a multi-hole probe designed and documented to sample equal volumes from each hole may be used to sample simultaneously at the required points.

(5) Notwithstanding paragraph (4) above, the owner or operator may test at few points than are specified in Method 1 or Method 20 if the conditions listed in 40 CFR 60.335(a)(5).

Condition 1-6: Test methods and procedures for NOx emission testing
Effective between the dates of 10/20/2005 and Permit Expiration Date

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

Item 1-6.1:

This Condition applies to Emission Unit: 1-00001

Item 1-6.2:

The owner or operator shall determine compliance with the applicable nitrogen oxides emission limitation in §60.332 and shall meet the performance test requirements of §60.8 as follows:

(1) For each run of the performance test, the mean nitrogen oxides emission concentration (NO_{xo}) corrected to 15 percent O₂ shall be corrected to ISO standard conditions using the following equation. Notwithstanding this requirement, use of the ISO correction equation is optional for: Lean premix stationary combustion turbines; units used in association with heat recovery steam generators (HRSG) equipped with duct burners; and units equipped with add-on emission control devices:

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

Where:

NO_x = emission concentration of NO_x at 15 percent O₂ and ISO standard ambient conditions, ppm by volume, dry basis, NO_{xo} = mean observed NO_x concentration, ppm by volume, dry basis, at 15 percent O₂, 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 = transcendental constant, 2.718, and Ta = ambient temperature, °K.

(2) The 3-run performance test required by §60.8 must be performed within ±5 percent at 30, 50, 75, and 90-to-100 percent of peak load or at four evenly-spaced load points in the normal operating range of the gas turbine, including the minimum point in the operating range and 90-to-100 percent of peak load, or at the highest achievable load point if 90-to-100 percent of peak load cannot be physically achieved in practice. If the turbine combusts both oil and gas as primary or backup fuels, separate performance testing is required for each fuel. Notwithstanding these requirements, performance testing is not required for any emergency fuel (as defined in §60.331).

(3) For a combined cycle turbine system with supplemental heat (duct burner), the owner or operator may



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elect to measure the turbine NO_x emissions after the duct burner rather than directly after the turbine. If the owner or operator elects to use this alternative sampling location, the applicable NO_x emission limit in §60.332 for the combustion turbine must still be met.

(4) If water or steam injection is used to control NO_x with no additional post-combustion NO_x control and the owner or operator chooses to monitor the steam or water to fuel ratio in accordance with §60.334(a), then that monitoring system must be operated concurrently with each EPA Method 20, ASTM D6522–00 (incorporated by reference, see §60.17), or EPA Method 7E run and shall be used to determine the fuel consumption and the steam or water to fuel ratio necessary to comply with the applicable §60.332 NO_x emission limit.

(5) If the owner operator elects to claim an emission allowance for fuel bound nitrogen as described in §60.332, then concurrently with each reference method run, a representative sample of the fuel used shall be collected and analyzed, following the applicable procedures described in §60.335(b)(9). These data shall be used to determine the maximum fuel nitrogen content for which the established water (or steam) to fuel ratio will be valid.

(6) If the owner or operator elects to install a CEMS, the performance evaluation of the CEMS may either be conducted separately (as described in paragraph (b)(7) of this section) or as part of the initial performance test of the affected unit.

(7) If the owner or operator elects to install and certify a NO_x CEMS under §60.334(e), then the initial performance test required under §60.8 may be done in the following alternative manner:

(i) Perform a minimum of 9 reference method runs, with a minimum time per run of 21 minutes, at a single load level, between 90 and 100 percent of peak (or the highest physically achievable) load.

(ii) Use the test data both to demonstrate compliance with the applicable NO_x emission limit under §60.332 and to provide the required reference method data for the RATA of the CEMS described under §60.334(b).

(iii) The requirement to test at three additional load levels is waived.

(8) If the owner or operator is required under §60.334(f) to monitor combustion parameters or parameters indicative of proper operation of NO_x emission controls, the appropriate parameters shall be continuously monitored and recorded during each run of the initial performance test, to establish acceptable operating ranges, for purposes of the parameter monitoring plan for the affected unit, as specified in §60.334(g).

(9) To determine the fuel bound nitrogen content of fuel being fired (if an emission allowance is claimed for fuel bound nitrogen), the owner or operator may use equipment and procedures meeting the requirements of:

(i) For liquid fuels, ASTM D2597–94 (Reapproved 1999), D6366–99, D4629–02, D5762–02 (all of which are incorporated by reference, see §60.17); or

(ii) For gaseous fuels, shall use analytical methods and procedures that are accurate to within 5 percent of



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the instrument range and are approved by the Administrator.

(10) If the owner or operator is required under §60.334(i)(1) or (3) to periodically determine the sulfur content of the fuel combusted in the turbine, a minimum of three fuel samples shall be collected during the performance test. Analyze the samples for the total sulfur content of the fuel using:

(i) For liquid fuels, ASTM D129–00, D2622–98, D4294–02, D1266–98, D5453–00 or D1552–01 (all of which are incorporated by reference, see §60.17); or

(ii) For gaseous fuels, ASTM D1072–80, 90 (Reapproved 1994); D3246–81, 92, 96; D4468–85 (Reapproved 2000); or D6667–01 (all of which are incorporated by reference, see §60.17). The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the prior approval of the Administrator.

(11) The fuel analyses required under paragraphs (b)(9) and (b)(10) of this section may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency.

Condition 1-5: Test methods and procedures - Alternative method
Effective between the dates of 10/20/2005 and Permit Expiration Date

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

Item 1-5.1:

This Condition applies to Emission Unit: 1-00001

Item 1-5.2:

The owner or operator may use the following as alternatives to the reference methods and procedures specified as follows: Instead of using the equation in paragraph (b)(1) of 40 CFR 60.335, manufacturers may develop ambient condition correction factors to adjust the nitrogen oxides emission level measured by the performance test as provided in §60.8 to ISO standard day conditions.

Condition 34: Compliance Demonstration
Effective between the dates of 04/12/2002 and Permit Expiration Date

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

Item 34.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001 Emission Point: 00001
Process: 001

Item 34.2:

Compliance Demonstration shall include the following monitoring:



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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

Monitoring of opacity shall be performed upon request of the regulatory agency.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR 60 Appendix A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 35: Compliance Demonstration
Effective between the dates of 04/12/2002 and Permit Expiration Date

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

Item 35.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001 Emission Point: 00002

Process: 001

Item 35.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

Monitoring of opacity shall be performed upon request of the regulatory agency.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR 60 Appendix A



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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



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: Public Access to Recordkeeping for Facilities With State Facility Permits - 6NYCRR Part 201-1.10(a)

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1) , and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

Item B: 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

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law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 1-7: Contaminant List

Effective between the dates of 10/20/2005 and Permit Expiration Date

Applicable State Requirement: ECL 19-0301

Item 1-7.1:

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

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Condition 36: Unavoidable noncompliance and violations

Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable State Requirement: 6NYCRR 201-1.4

Item 36.1:

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



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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 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 39: Emission Unit Definition

Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable State Requirement: 6NYCRR 201-5

Item 39.1(From Mod 1):

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

Emission Unit: 1-00001

Emission Unit Description:

The two turbines and compression facilities are used to boost natural gas pressure in the Iroquois natural gas pipeline system to deliver natural gas to its customers. The facility has two turbines of approximately 7000 HP each and approximately 60 MMBTU/hr each, an emergency generator and other small combustion sources (heaters) that are exempt from permitting. The only emission points requiring permits are the turbines.

Building(s): 1 & 2

Condition 41: Air pollution prohibited

Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable State Requirement: 6NYCRR 211.2

Item 41.1:



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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.

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

Condition 42: Emission Point Definition By Emission Unit
Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable State Requirement: 6NYCRR 201-5

Item 42.1(From Mod 1):

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

Emission Unit: 1-00001

Emission Point: 00001

Height (ft.): 40 Diameter (in.): 36
NYTMN (km.): 4727.523 NYTME (km.): 562.733 Building: 1 & 2

Emission Point: 00002

Height (ft.): 40 Diameter (in.): 36
NYTMN (km.): 4727.523 NYTME (km.): 562.733 Building: 1 & 2

Condition 43: Process Definition By Emission Unit
Effective between the dates of 04/12/2002 and Permit Expiration Date

Applicable State Requirement: 6NYCRR 201-5

Item 43.1(From Mod 1):

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

Emission Unit: 1-00001

Process: 001 Source Classification Code: 2-02-002-01

Process Description:

The process involves the two simple cycle natural gas fueled turbines with low NOx combustors to be used to drive natural gas pipeline compressors. Both turbines maximum NOx concentration would be 25 parts per million by volume on a dry basis.

Emission Source/Control: 00001 - Combustion

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Design Capacity: 60 million Btu per hour

Emission Source/Control: 00002 - Combustion
Design Capacity: 60 million Btu per hour