

Special Conditions for  
Algonquin Gas Transmission Company  
NYSDEC Certificate to Operate  
Emission Points R0100, R0200, R0300, and R0400

I. Emission Limits

1. Total Nitrogen Oxide (NOx) emissions from all of the combustion sources at the station (existing emission points R0100, R0200, R0300, R0400, GT020, and 00006 and new emission point 00GT7) must not exceed 420 tons per year. A 52 week rolling total must be calculated and reported monthly by Algonquin Gas Transmission Company (Algonquin) to the Department as described in detail in Algonquin's "NOx Emission Cap Formula" document (attached to these special conditions) submitted with the permit applications and adjusted to incorporate weekly totalling.

II. Operating Requirements

1. Natural Gas shall be the only fuel used in the combustion sources.

III. Testing Requirements

1. Testing to verify the NOx emission factor used in the Emissions Cap Formula must be performed. This testing must be performed when the required testing for Emission Point 00GT7 is conducted.

2. The engines will be stack tested according to 40 CFR 60.8 and 6 NYCRR Part 202.

4. All testing must be done in accordance with protocols approved by NYSDEC in advance of testing. Protocols must be submitted for approval at least 60 days in advance of testing. NYSDEC must be provided with at least 30 days advanced notice of testing. Failure to notify or use approved protocols is grounds for rejection of such tests.

IV. Compliance Certification

1. NYSDEC reserves the right to require stack testing of facility emissions in order to determine compliance with the limits set forth in this permit if NYSDEC has cause to believe that the facility is in non-compliance. In such a case, NYSDEC will provide written documentation to Algonquin Gas Transmission Company describing the reason(s) for suspecting facility non-compliance. Testing required must be conducted within the time frame set forth by NYSDEC.

2. NYSDEC reserves the right to inspect this facility as deemed necessary to determine compliance with this permit. Such inspections may be performed without prior notification by NYSDEC. Routine inspections will be made during reasonable business hours, however, NYSDEC reserves the right to enter the facility at any time if there is cause to believe that the facility is in non-compliance.

3. All testing must be done in accordance with protocols approved by NYSDEC in advance of testing. Protocols must be submitted for approval at least 60 days in advance of testing. NYSDEC must be provided with at least 30 days advanced notice of testing. Failure to notify or use approved protocols is grounds for rejection of such tests.

#### V. Record Keeping and Reporting

1. A weekly rolling annual amount of fuel burned in the engines must be maintained in accordance with permit condition I.1. The total fuel burned per calendar year must be reported for each calendar year.

2. All copies of reports and notification required under this section must be submitted to the NYSDEC Region 3 Office, with two copies sent to the NYSDEC Bureau of Source Control in Albany. Unless stated otherwise, such reports or notification shall be submitted within thirty days after the end of each calendar year quarter. The addresses for the above offices are as follows:

NYSDEC Region 3 Office  
Attn: Air Quality Engineer  
21 South Putts Corner Road  
New Paltz, NY 12561-1696

NYSDEC  
Bureau of Source Control  
50 Wolf Road  
Albany, NY 12233-3254.

3. All records required by this permit must be kept at the facility for the three most recent years, and must be made available upon request of a NYSDEC authorized agent except for the total fuel burned per calendar year which must be kept for five most recent years.

4. 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 (without obstructions) to the operator of the facility. A copy of this summary shall be submitted to NYSDEC prior to facility startup and is subject to NYSDEC approval.

#### VI. Compliance

1. Any violation of the conditions of this permit is subject to enforcement action under Article 71 of the New York State Environmental Conservation Law.

## ATTACHMENT 1

### Annual NOx Emissions Cap Formula

The following general formula will be used to develop Algonquin's monthly monitoring report to the NYSDEC. NOx emissions for the month preceding the report submittal month will be calculated for each engine. The total of emissions from all engines will be the weekly NOx emissions for the 52 weeks preceding the report month. The total emissions for the preceding 52 weeks will be shown on the report. Fuel heat value and fuel consumed by each engine will be reported as well.

The formula is as follows:

$$T_{\text{STATION}} = T_{\text{Clarke}} + T_{\text{Centaurus}} + T_{\text{Mars}} < 421 \text{ Tons NOx/Year}$$

$$T_{\text{year}} = \Sigma (T_{\text{week}} \text{ for most recent 52 weeks}) < 421 \text{ Tons NOx/Year}$$

$$T_{\text{week}} = \Sigma (P_{\text{unit}} * F) / (2000 \text{ Pounds/Ton}) = \text{Tons/Week}$$

Where:

T = NOx Tons/time (week or year)

P<sub>unit</sub> = NOx Pounds/mmBTU for the natural gas used as fuel

Unit = Mars = 0.65 Pounds/mmBTU max  
Centaurus = 0.38 Pounds/mmBTU max  
Clarke = 5.25 Pounds/mmBTU max

F = mmBTU/week

Fuel heat value = 1031 BTU/SCF

New York State Department of Environmental Conservation  
21 South Putt Corners Road, New Paltz, NY 12561-1696  
(914) 256-3000 FAX (914) 255-3042



Michael D. Zagata  
Commissioner

August 8, 1996

TERRANCE W DOYLE  
ALGONQUIN GAS TRANSMISSION CO  
1284 SOLDIERS FIELD ROAD  
BOSTON MA 02135

RE: Permit No. 3-3928-00001/00010, 11, 12, 13  
Town of Stony Point, Rockland County  
Stony Point Compressor Station  
Emission Points R0100, R0200, R0300, R0400

PERMIT CORRECTION

Dear Mr. Doyle:

The above permits are hereby corrected as follows: The last sentence in Special Condition 3, within section IV. Compliance Certification, is completed to read: "The name(s) of vendors which can independently verify the testing or engineering evaluation must also be supplied to the Commissioner's representative."

All other terms and conditions remain as written in the permits as last revised March 29, 1996. Please attach a copy of this modification to the front of each permit.

If there are any questions please contact me at (914) 256-3014.

Very truly yours,

Alexander F. Ciesluk, Jr.  
Deputy Regional Permit Administrator  
Region 3

AFC/ma

Enc.

cc: R. Stanton/J. Battista  
P. Lentlie  
T. Gardella, USEPA

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STATIONARY COMBUSTION INSTALLATION

# APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

1. NAME OF OWNER OR LESSEE  
2. NAME OF AUTHORIZED AGENT  
3. TELEPHONE (508)  
4. FACILITY NAME OF EXISTING FACILITY OR CHANGING NAME

1. NAME OF OWNER OR LESSEE <b>Algonquin Gas Transmission Co.</b>	2. NAME OF AUTHORIZED AGENT <b>ENSR Consulting &amp; Engineering</b>	3. TELEPHONE (508) <b>635-9500</b>	4. FACILITY NAME OF EXISTING FACILITY OR CHANGING NAME <b>Stony Point Compressor Station</b>
5. ADDRESS AND STREET ADDRESS <b>1284 Snidlers Field Road</b>	6. ADDRESS AND STREET ADDRESS <b>35 Hugue Park</b>	7. CITY, TOWN, VILLAGE <b>Lindberg Road</b>	8. CITY, TOWN, VILLAGE <b>Stony Point</b>
9. STATE <b>MA</b>	10. STATE <b>MA</b>	11. ZIP CODE <b>02135</b>	12. ZIP CODE <b>01720</b>
13. COUNTY <b>Boston</b>	14. COUNTY <b>Arcos</b>	15. COUNTY <b>MA</b>	16. COUNTY <b>MA</b>
17. NUMBER OF STATIONARY COMBUSTION INSTALLATIONS <b>1</b>	18. NUMBER OF STATIONARY COMBUSTION INSTALLATIONS <b>1</b>	19. NUMBER OF STATIONARY COMBUSTION INSTALLATIONS <b>1</b>	20. NUMBER OF STATIONARY COMBUSTION INSTALLATIONS <b>1</b>
21. NAME OF OWNER OR LESSEE <b>Timothy C. O'Brien</b>	22. NAME OF AUTHORIZED AGENT <b>Robert G. McInnes</b>	23. TELEPHONE (508) <b>664-089-1</b>	24. TELEPHONE (508) <b>635-9500</b>
25. NAME OF OWNER OR LESSEE <b>Manager Environ. Compliance</b>	26. NAME OF AUTHORIZED AGENT <b>Manager Environ. Compliance</b>	27. TELEPHONE (508) <b>560-1402</b>	28. TELEPHONE (508) <b>560-1402</b>
29. NAME OF OWNER OR LESSEE <b>Algonquin Gas Transmission Co.</b>	30. NAME OF AUTHORIZED AGENT <b>Algonquin Gas Transmission Co.</b>	31. TELEPHONE (508) <b>635-9500</b>	32. TELEPHONE (508) <b>635-9500</b>
33. NAME OF OWNER OR LESSEE <b>Algonquin Gas Transmission Co.</b>	34. NAME OF AUTHORIZED AGENT <b>Algonquin Gas Transmission Co.</b>	35. TELEPHONE (508) <b>635-9500</b>	36. TELEPHONE (508) <b>635-9500</b>

37. NAME OF OWNER OR LESSEE <b>Algonquin Gas Transmission Co.</b>	38. NAME OF AUTHORIZED AGENT <b>Algonquin Gas Transmission Co.</b>	39. TELEPHONE (508) <b>635-9500</b>	40. TELEPHONE (508) <b>635-9500</b>
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45. NAME OF OWNER OR LESSEE <b>Algonquin Gas Transmission Co.</b>	46. NAME OF AUTHORIZED AGENT <b>Algonquin Gas Transmission Co.</b>	47. TELEPHONE (508) <b>635-9500</b>	48. TELEPHONE (508) <b>635-9500</b>
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1. EMISSIONS FROM APPROVED APPLICATION SHALL VOID THE PERMIT  
2. THIS IS NOT A CERTIFICATE TO OPERATE  
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**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALGONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0100**

**DATE: March 18, 1996**

**I. Emission Limits.****1. Emission Point R0100**

Clark TLA-8 Reciprocating Engine

Emission Limits during Gas Firing:

NOx: 5.1 grams NOx per Brake horsepower hour

CO: 27.1 pounds per hour - Inote: based on old PSD limits

VOC: 12.9 pounds per hour - Inote: based on old PSD limits

2. These limits apply at all loads of operation, except during periods of start-up, malfunctions (as stated in the paragraphs of subdivision 6NYCRR Part 201.5 (d) ) and shutdown (not to exceed three hours per occurrence).

3. All emission limits are based on the higher heating value (HHV) of the fuel being burned.

**II. Operating Limits**

1. The Reciprocating Engine shall fire only natural gas.

2. This emission point **R0100** shall continue to be subject to the facility wide NOx cap of **293** tpy as calculated in ATTACHMENT I.

**III Testing Requirements**

1. Stack testing for emissions of NOx, CO, and VOC's is required from the Reciprocating Engine.

\*\*\*\* CONTINUED\*\*\*\*

DEC PERMIT NUMBER

FACILITY ID NUMBER

PROGRAM NUMBER

**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALGONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0100**

**DATE: March 18, 1996**

2. All required stack testing must be performed and a report submitted to NYSDEC and USEPA within 180 days of initial start-up of the compressor engines, or within 60 days of commercial operation of the facility, whichever comes first. No extensions of this deadline will be granted by NYSDEC.

3. All testing must be done in accordance with protocols approved by NYSDEC in advance of testing. Protocols must be submitted for approval at least 60 days in advance of testing. NYSDEC must be provided with at least 30 days advanced notice of testing. Failure to notify or use approved protocols is grounds for rejection of such tests.

**IV. Compliance Certification.**

**1. Continuous Fuel Monitoring**

a. The facility shall maintain a daily log of hours of operation of each Reciprocating Engine. A separate written log for the rolling daily annual total fuel gas limitation shall also be maintained at the facility. Both logs shall be made available to the DEC and EPA inspectors upon request.

b. The total fuel gas consumption shall be limited to the requirements of V.7 This limitation shall be based on a 365 rolling daily annual total (i.e., totalizing the total fuel consumption over 365 days, where each day starts the summing period for the new 365 day period).

2. NYSDEC reserves the right to inspect this facility as deemed necessary to determine compliance with this permit. Such inspections may be performed without prior notification by NYSDEC. Routine inspections will be made during reasonable business hours, however, NYSDEC reserves the right to enter the facility at any time if there is cause to believe that the facility is in non-compliance.

3. The following alternate emission limit ( 5.1 grams NOx per Brakehorse power hour) has been established. The source owner must continue to investigate compliance strategies and submit an annual report documenting the evaluation of abatement technology and/or process modification. The written report must include the results and specific dates of the testing or evaluation. The name(s) of vendors which can independently verify the testing or engineering evaluation must

DEC PERMIT NUMBER

\*\*\*\*\* continued \*\*\*\*\*

FACILITY ID NUMBER

PROGRAM NUMBER

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**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALGONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0100**

**DATE: March 18, 1996**

4. The Department reserves the right to require the source owner to evaluate and implement innovative technology within a time frame established by the Commissioner's representative as per 621.14(a)(4).

**V. Record Keeping and Reporting**

1. Algonquin Gas must comply with the notification and record keeping requirements of 40 CFR 60.7 for each gas compressor. The major milestones of 40 CFR 60.7 are to notify USEPA and NYSDEC of construction and facility start-up.

2. Algonquin Gas must monitor the amount of fuel burned in each compressor. Such data must be accurate to  $\pm 5\%$ .

3. All copies of reports and notification required under this section must be submitted to the NYSDEC Region 3 office, with **one copy** sent to the NYSDEC, attention: Bureau of Enforcement and Regional Support in Albany. Unless stated otherwise, such reports or notification shall be submitted within (30) days after the end of each calendar year quarter. The addresses for the above offices are as follows:

NYSDEC Region 3 office  
Attn: Robert Stanton, RAPCE  
21 South Putt Corners Road  
New Paltz, NY 12561-1696

NYSDEC  
Bureau of Enforcement and Regional Support  
50 Wolf Road  
Albany, NY 12233-3254

4. All records required by this permit must be kept at the facility for the five most recent years, and must be made available upon request of a NYSDEC authorized agent.

5. 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 (without obstruction) to the operator of the facility. A copy of this summary shall be submitted to NYSDEC prior to facility start-up and is subject to NYSDEC approval.

6. A high energy ignition system with air/fuel ratio controls must be installed

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FACILITY ID NUMBER

PROGRAM NUMBER

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**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALCONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0100**

**DATE: March 18, 1996**

by May 31, 1995.

7. During the Ozone Season( May 1st through September 15th ) the facility shall limit the four reciprocating engines (Clarks) EPs R0100, R0200, R0300, R0400 to a maximum of one hundred and eleven (111 tons NOx).

$$T_{\text{(CLARKS)}} = T_{\text{R0100}} + T_{\text{R0200}} + T_{\text{R0300}} + T_{\text{R0400}} < 111 \text{ Tons NOx / Ozone Season}$$

$$T_{\text{Ozone Season}} = \sum (T_{\text{Ozone Days}}) < 111 \text{ Tons NOx / Ozone Season}$$

$$T_{\text{Ozone Day}} = \sum (P_{\text{Unit}} * F) / (2000 \text{ pounds/Ton}) = \text{Tons / Day}$$

Where:

T = NOx Tons/time (day, week or year)

P<sub>Unit</sub> = NOx Pounds/mmbTU for the natural gas used as fuel

Unit = (1) Mars (00GT7) = 0.06 Pounds/mmbTU (maximum)  
(2) Centaurs (GT020 & 00006) = 0.12 Pounds/mmbTU (maximum)  
(4) Clarks (R0100, R0200, R0300, R0400) = 1.40 Pounds/mmbTU (maximum)

Note: Unit numbers are based on the highest results generated during stack testing and the March 12, 1996 letter for the Clark Engines.

F = mmbTU/day

Fuel heat value = 1031 BTU / SCF

8. During the Ozone season the facility must "environmentally dispatch" ( use the three turbine engines prior to utilizing the reciprocating engines) whenever possible. If environmental dispatch is not utilized, then Algonquin must demonstrate and document to the satisfaction of the Department the reason(s) why.

#### **VI. Compliance**

Any violation of the conditions of this permit is subject to penalty under Article 71 of the New York State Environmental Conservation Law.

DEC PERMIT NUMBER		
FACILITY ID NUMBER	PROGRAM NUMBER	Page 5 of 6

**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALGONQUIN GAS TRANSMISSION CORPORATION****EMISSION POINT: R0100****DATE: March 18, 1996****ATTACHMENT 1****Annual NOx Emissions Cap Formula**

The following general formula will be used to develop Algonquin's monthly monitoring report to the NYSDEC. NOx emissions for the month preceding the report submittal month will be calculated for each engine. The total of emissions from all engines will be the weekly NOx emissions for the preceding 52 weeks will be shown on the report. Fuel heat value and fuel consumed by each engine will be reported as well.

The formula is as follows:

$$T_{\text{station}} = T_{\text{clarks}} + T_{\text{centaurs}} + T_{\text{mars}} < 293 \text{ Tons NOx / Year}$$

$$T_{\text{year}} = \sum (T_{\text{week}} \text{ for the most recent 52 weeks}) < 293 \text{ Tons NOx/YR}$$

$$T_{\text{year}} = \sum (P_{\text{unit}} * F) / (2000 \text{ pounds/Ton}) = \text{Tons / Week}$$

Where:

$$T = \text{NOx Tons/time (week or year)}$$

$$P_{\text{unit}} = \text{NOx Pounds/mmBTU for the natural gas used as fuel}$$

$$\begin{aligned} P_{\text{unit}} &= (1) \text{ Mars (00GT7)} &&= 0.06 \text{ Pounds/mmBTU (maximum)} \\ &= (2) \text{ Centaurs (GT020 \& 00006)} &&= 0.12 \text{ Pounds/mmBTU (maximum)} \\ &= (4) \text{ Clarks (R0100, R0200, R0300, R0400)} &&= 1.40^1 \text{ Pounds/mmBTU (maximum)} \end{aligned}$$

<sup>1</sup> - 1.40 will be adjusted after the technology has been proven

Note: Unit numbers are based on the highest results generated during stack testing and the March 12, 1996 letter for the Clark Engines.

$$F = \text{mmBTU/week}$$

$$\text{Fuel heat value} = 1031 \text{ BTU / SCF}$$

DEC PERMIT NUMBER

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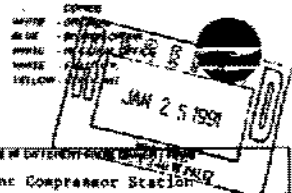
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LOCATION FACILITY EMISSION POINT  
 3922000 0173V 5820565 84982

NEW YORK STATE  
 DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# STATIONARY COMBUSTION INSTALLATION

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE



1. NAME OF OWNER/FIRM Algonquin Gas Transmission Co. FINDENKANTH STREET ADDRESS 1244 Koldfarm Field Road STREET, TOWN, COUNTY BOSTON MA 02133		2. NAME OF AUTHORIZED AGENT ENGR Consulting & Engineering 11 NUMBER AND STREET ADDRESS 35 Hagoy Park IF CITY, TOWN, COUNTY Acton MA 01720		3. TELEPHONE (508) 635-9500		4. FACILITY NAME IF DIFFERENT FROM EMISSION POINT Stony Point Compressor Station IF FACILITY LOCATION DIFFERENT FROM STREET ADDRESS Lindberg Road IF CITY, TOWN, COUNTY Stony Point 0980	
5. TYPE OF FACILITY <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> MILITARY <input type="checkbox"/> MANUFACTURING <input type="checkbox"/> RESIDENTIAL <input checked="" type="checkbox"/> INDUSTRIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> STATE <input type="checkbox"/> OTHER F. NAME AND TITLE OF AGENT REPRESENTATIVE Timothy C. O'Brien Manager, Emission Compliance F. TELEPHONE (617) 560-1402		6. NAME OF PLANT OR INDUSTRIAL FACILITY Robert C. McInnes 664069-1 635-9500		7. TELEPHONE (508) 635-9500		8. BUILDING NAME OR NUMBER Compressor Bldg. 1 IF START OF DATE 7/91 IF DRAWING NUMBER OF PLANS SUBMITTED SK-1047-005; S-1480-031	
9. PERMIT TO CONSTRUCT <input type="checkbox"/> NEW SOURCE <input type="checkbox"/> MODIFICATION		10. CERTIFICATE TO OPERATE <input type="checkbox"/> NEW SOURCE <input type="checkbox"/> MODIFICATION		11. MONITORING <input type="checkbox"/> SPOT <input type="checkbox"/> CONTINUOUS <input type="checkbox"/> OTHER		12. SOURCE CODE A 7440	

13. UNIT TYPE Clark TLA-8		14. UNIT IDENTIFICATION NUMBER 18.9		15. UNIT RATING 1		16. SOURCE CODE A 7440	
17. BURNER TYPE NA		18. BURNER MANUFACTURER'S NAME AND MODEL NUMBER NA		19. FUEL TYPE 22		20. FUEL QUANTITY OF FUEL, T/H 18,637	
21. UNIT TYPE NA		22. UNIT IDENTIFICATION NUMBER NA		23. UNIT RATING NA		24. SOURCE CODE NA	
25. UNIT TYPE NA		26. UNIT IDENTIFICATION NUMBER NA		27. UNIT RATING NA		28. SOURCE CODE NA	

CONTAMINANTS				EMISSIONS				ANNUAL EMISSIONS (T/H)			
NAME	DATE	ACTUAL	UNIT	PERCENT	CONCENTRATION	ACTION	ACTUAL	UNIT	PERCENT	ACTUAL	UNIT
17. TOTAL PARTICULATES	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
18. SULFUR DIOXIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
19. NITROGEN DIOXIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
20. CARBON MONOXIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
21. HYDROCARBONS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

1. SIGNATURE OF AGENT REPRESENTATIVE  
 2. DATE  
 3. NAME OF AGENT REPRESENTATIVE  
 4. DATE

1. PERMIT TO CONSTRUCT		2. RECOMMENDED ACTION RE: C.O.	
DATE ISSUED 1/1	DATE EXPIRATION 1/1	DATE RECEIVED 9/23/91	DATE REVIEWED 9/23/91
3. SIGNATURE OF AGENT REPRESENTATIVE Q. F. C. [Signature]		4. SIGNATURE OF AGENT REPRESENTATIVE Q. F. C. [Signature]	
5. SIGNATURE OF AGENT REPRESENTATIVE Q. F. C. [Signature]		6. SIGNATURE OF AGENT REPRESENTATIVE Q. F. C. [Signature]	

7. SIGNATURE OF AGENT REPRESENTATIVE  
 8. DATE  
 9. NAME OF AGENT REPRESENTATIVE  
 10. DATE

**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALCONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0200**

**DATE: March 18, 1996**

**I. Emission Limits.****1. Emission Point R0200**

Clark TLA-8 Reciprocating Engine

Emission Limits during Gas Firing:

NOx: 5.1 grams NOx per Brake horsepower hour

CO: 27.1 pounds per hour - [note: based on old PSD limits]

VOC: 12.9 pounds per hour - [note: based on old PSD limits]

2. These limits apply at all loads of operation, except during periods of start-up, malfunctions (as stated in the paragraphs of subdivision 6NYCRR Part 201.5 (d) ) and shutdown (not to exceed three hours per occurrence).

3. All emission limits are based on the higher heating value (HHV) of the fuel being burned.

**II. Operating Limits**

1. The Reciprocating Engine shall fire only natural gas.

2. This emission point **R0200** shall continue to be subject to the facility wide NOx cap of **293** tpy as calculated in ATTACHMENT I.

**III Testing Requirements**

1. Stack testing for emissions of NOx, CO, and VOC's is required from the Reciprocating Engine.

\*\*\*\* CONTINUED\*\*\*\*

DEC PERMIT NUMBER

FACILITY ID NUMBER

PROGRAM NUMBER

**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALCONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0200**

**DATE: March 18, 1996**

2. All required stack testing must be performed and a report submitted to NYSDEC and USEPA within 180 days of initial start-up of the compressor engines, or within 60 days of commercial operation of the facility, whichever comes first. No extensions of this deadline will be granted by NYSDEC.

3. All testing must be done in accordance with protocols approved by NYSDEC in advance of testing. Protocols must be submitted for approval at least 60 days in advance of testing. NYSDEC must be provided with at least 30 days advanced notice of testing. Failure to notify or use approved protocols is grounds for rejection of such tests.

**IV. Compliance Certification.****1. Continuous Fuel Monitoring**

a. The facility shall maintain a daily log of hours of operation of each Reciprocating Engine. A separate written log for the rolling daily annual total fuel gas limitation shall also be maintained at the facility. Both logs shall be made available to the DEC and EPA inspectors upon request.

b. The total fuel gas consumption shall be limited to the requirements of V.7 This limitation shall be based on a 365 rolling daily annual total (i.e., totalizing the total fuel consumption over 365 days, where each day starts the summing period for the new 365 day period).

2. NYSDEC reserves the right to inspect this facility as deemed necessary to determine compliance with this permit. Such inspections may be performed without prior notification by NYSDEC. Routine inspections will be made during reasonable business hours, however, NYSDEC reserves the right to enter the facility at any time if there is cause to believe that the facility is in non-compliance.

3. The following alternate emission limit ( 5.1 grams NOx per Brakehorse power hour) has been established. The source owner must continue to investigate compliance strategies and submit an annual report documenting the evaluation of abatement technology and/or process modification. The written report must include the results and specific dates of the testing or evaluation. The name(s) of vendors which can independently verify the testing or engineering evaluation must

DEC PERMIT NUMBER

\*\*\*\*\* continued \*\*\*\*\*

FACILITY ID NUMBER

PROGRAM NUMBER

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**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALGONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0200**

**DATE: March 18, 1996**

4. The Department reserves the right to require the source owner to evaluate and implement innovative technology within a time frame established by the Commissioner's representative as per 621.14(a)(4).

**V. Record Keeping and Reporting**

1. Algonquin Gas must comply with the notification and record keeping requirements of 40 CFR 60.7 for each gas compressor. The major milestones of 40 CFR 60.7 are to notify USEPA and NYSDEC of construction and facility start-up.

2. Algonquin Gas must monitor the amount of fuel burned in each compressor. Such data must be accurate to  $\pm 5\%$ .

3. All copies of reports and notification required under this section must be submitted to the NYSDEC Region 3 office, with **one copy** sent to the NYSDEC, attention: Bureau of Enforcement and Regional Support in Albany. Unless stated otherwise, such reports or notification shall be submitted within (30) days after the end of each calendar year quarter. The addresses for the above offices are as follows:

NYSDEC Region 3 office  
Attn: Robert Stanton, RAPCE  
21 South Putt Corners Road  
New Paltz, NY 12561-1696

NYSDEC  
Bureau of Enforcement and Regional Support  
50 Wolf Road  
Albany, NY 12233-3254

4. All records required by this permit must be kept at the facility for the five most recent years, and must be made available upon request of a NYSDEC authorized agent.

5. 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 (without obstruction) to the operator of the facility. A copy of this summary shall be submitted to NYSDEC prior to facility start-up and is subject to NYSDEC approval.

6. A high energy ignition system with air/fuel ratio controls must be installed

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FACILITY ID NUMBER

PROGRAM NUMBER

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**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALGONQUIN GAS TRANSMISSION CORPORATION****EMISSION POINT: R0200****DATE: March 18, 1996**

by May 31, 1995.

7. During the Ozone Season( May 1st through September 15th ) the facility shall limit the four reciprocating engines (Clarks) EPs R0100, R0200, R0300, R0400 to a maximum of one hundred and eleven (111 tons NOx).

$$T_{(CLARKS)} = T_{R0100} + T_{R0200} + T_{R0300} + T_{R0400} < 111 \text{ Tons NOx / Ozone Season}$$

$$T_{\text{Ozone Season}} = \sum (T_{\text{Ozone Days}}) < 111 \text{ Tons NOx / Ozone Season}$$

$$T_{\text{Ozone Day}} = \sum (P_{\text{Unit}} * F) / (2000 \text{ pounds/Ton}) = \text{Tons / Day}$$

Where:

T = NOx Tons/time (day, week or year)

P<sub>unit</sub> = NOx Pounds/mmBTU for the natural gas used as fuel

Unit = (1) Mars (00GT7) = 0.06 Pounds/mmBTU (maximum)  
(2) Centaurs (GT020 & 00006) = 0.12 Pounds/mmBTU (maximum)  
(4) Clarks (R0100, R0200, R0300, R0400) = 1.40 Pounds/mmBTU (maximum)

Note: Unit numbers are based on the highest results generated during stack testing and the March 12, 1996 letter for the Clark Engines.

F = mmBTU/day

Fuel heat value = 1031 BTU / SCF

8. During the Ozone season the facility must "environmentally dispatch" ( use the three turbine engines prior to utilizing the reciprocating engines) whenever possible. If environmental dispatch is not utilized, then Algonquin must demonstrate and document to the satisfaction of the Department the reason(s) why.

**VI. Compliance**

Any violation of the conditions of this permit is subject to penalty under Article 71 of the New York State Environmental Conservation Law.

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**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALGONQUIN GAS TRANSMISSION CORPORATION****EMISSION POINT: R0200****DATE: March 18, 1996****ATTACHMENT 1****Annual NOx Emissions Cap Formula**

The following general formula will be used to develop Algonquin's monthly monitoring report to the NYSDEC. NOx emissions for the month preceding the report submittal month will be calculated for each engine. The total of emissions from all engines will be the weekly NOx emissions for the preceding 52 weeks will be shown on the report. Fuel heat value and fuel consumed by each engine will be reported as well.

The formula is as follows:

$$T_{\text{station}} = T_{\text{clarks}} + T_{\text{centaurs}} + T_{\text{mars}} < 293 \text{ Tons NOx / Year}$$

$$T_{\text{year}} = \sum (T_{\text{week}} \text{ for the most recent 52 weeks}) < 293 \text{ Tons NOx/YR}$$

$$T_{\text{year}} = \sum (P_{\text{unit}} * F) / (2000 \text{ pounds/Ton}) = \text{Tons / Week}$$

Where:

$$T = \text{NOx Tons/time (week or year)}$$

$$P_{\text{unit}} = \text{NOx Pounds/mmBTU for the natural gas used as fuel}$$

$$\begin{aligned} n_{it} &= (1) \text{ Mars (00GT7)} &&= 0.06 \text{ Pounds/mmBTU (maximum)} \\ &= (2) \text{ Centaurs (GT020 \& 00006)} &&= 0.12 \text{ Pounds/mmBTU (maximum)} \\ &= (4) \text{ Clarks (R0100, R0200, R0300, R0400)} &&= 1.40^1 \text{ Pounds/mmBTU (maximum)} \end{aligned}$$

<sup>1</sup> - 1.40 will be adjusted after the technology has been proven

Note: Unit numbers are based on the highest results generated during stack testing and the March 12, 1996 letter for the Clark Engines.

$$F = \text{mmBTU/week}$$

$$\text{Fuel heat value} = 1031 \text{ BTU / SCF}$$

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FACILITY ID NUMBER

PROGRAM NUMBER

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STATIONARY COMBUSTION INSTALLATION

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

1. NAME OF OWNER/LESSEE Algonquin Gas Transmission Co.		2. NAME OF REGISTERED AGENT ERSE Consulting & Engineering		3. TELEPHONE (508) 635-9500		4. FACILITY NAME (IF DIFFERENT FROM 1.) Stony Point Compressor Station	
5. FACILITY LOCATION ADDRESS 1284 Soldiers Field Road		6. ADDRESS STREET ADDRESS 39 Nagog Park		7. CITY/TOWN/VILLAGE Boston		8. COUNTY MA	
9. ZIP CODE 02135		10. CITY/TOWN/VILLAGE Aiken		11. STATE MA		12. ZIP CODE 01720	
13. TYPE OF FACILITY <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> PUBLIC <input type="checkbox"/> OTHER		14. NAME OF PLANT OR INDUSTRIAL PROCESS Compressor Bldg.		15. FUEL TYPE Natural Gas		16. FUEL SOURCE Pipeline	
17. NAME OF PERSON REPRESENTING OWNER/LESSEE Timothy C. O'Brien Manager Environ. Compliance		18. SIGNATURE OF OWNER/LESSEE REPRESENTATIVE (Signature)		19. SIGNATURE OF REGISTERED AGENT Robert C. Holmes (508) 635-9500		20. DATE OF APPLICATION 1/21/91	
21. PERMIT TO CONSTRUCT <input type="checkbox"/> YES <input type="checkbox"/> NO		22. PERMIT TO OPERATE <input type="checkbox"/> YES <input type="checkbox"/> NO		23. FEE \$1000		24. OTHER FEES \$0	

25. UNIT TYPE OT		26. UNIT MANUFACTURER'S NAME AND MODEL NUMBER Clark T1A-5		27. UNIT RATING 18.9		28. UNIT EFFICIENCY 1	
29. FUEL TYPE NA		30. FUEL SOURCE NA		31. FUEL TYPE NA		32. FUEL SOURCE NA	
33. NAME OF SUPPLIER Algonquin Gas Transmission Co.		34. NAME OF SUPPLIER NA		35. NAME OF SUPPLIER NA		36. NAME OF SUPPLIER NA	
37. NAME OF SUPPLIER NA		38. NAME OF SUPPLIER NA		39. NAME OF SUPPLIER NA		40. NAME OF SUPPLIER NA	

25. UNIT TYPE: OT

26. UNIT MANUFACTURER'S NAME AND MODEL NUMBER: Clark T1A-5

27. UNIT RATING: 18.9

28. UNIT EFFICIENCY: 1

29. FUEL TYPE: NA

30. FUEL SOURCE: NA

31. FUEL TYPE: NA

32. FUEL SOURCE: NA

33. NAME OF SUPPLIER: Algonquin Gas Transmission Co.

34. NAME OF SUPPLIER: NA

35. NAME OF SUPPLIER: NA

36. NAME OF SUPPLIER: NA

25. UNIT TYPE: OT

26. UNIT MANUFACTURER'S NAME AND MODEL NUMBER: Clark T1A-5

27. UNIT RATING: 18.9

28. UNIT EFFICIENCY: 1

29. FUEL TYPE: NA

30. FUEL SOURCE: NA

31. FUEL TYPE: NA

32. FUEL SOURCE: NA

33. NAME OF SUPPLIER: Algonquin Gas Transmission Co.

34. NAME OF SUPPLIER: NA

35. NAME OF SUPPLIER: NA

36. NAME OF SUPPLIER: NA

25. UNIT TYPE: OT

26. UNIT MANUFACTURER'S NAME AND MODEL NUMBER: Clark T1A-5

27. UNIT RATING: 18.9

28. UNIT EFFICIENCY: 1

29. FUEL TYPE: NA

30. FUEL SOURCE: NA

31. FUEL TYPE: NA

32. FUEL SOURCE: NA

33. NAME OF SUPPLIER: Algonquin Gas Transmission Co.

34. NAME OF SUPPLIER: NA

35. NAME OF SUPPLIER: NA

36. NAME OF SUPPLIER: NA

25. UNIT TYPE: OT

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36. NAME OF SUPPLIER: NA

25. UNIT TYPE: OT

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25. UNIT TYPE: OT

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28. UNIT EFFICIENCY: 1

29. FUEL TYPE: NA

30. FUEL SOURCE: NA

31. FUEL TYPE: NA

32. FUEL SOURCE: NA

33. NAME OF SUPPLIER: Algonquin Gas Transmission Co.

34. NAME OF SUPPLIER: NA

35. NAME OF SUPPLIER: NA

36. NAME OF SUPPLIER: NA

**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALGONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0300**

**DATE: March 18, 1996**

**I. Emission Limits.**

1. Emission Point **R0300**  
Clark TLA-8 Reciprocating Engine

Emission Limits during Gas Firing:

NOx: 5.1 grams NOx per Brake horsepower hour

CO: 27.1 pounds per hour - [note: based on old PSD limits]

VOC: 12.9 pounds per hour - [note: based on old PSD limits]

2. These limits apply at all loads of operation, except during periods of start-up, malfunctions (as stated in the paragraphs of subdivision 6NYCRR Part 201.5 (d) ) and shutdown (not to exceed three hours per occurrence).

3. All emission limits are based on the higher heating value (HHV) of the fuel being burned.

**II. Operating Limits**

1. The Reciprocating Engine shall fire only natural gas.
2. This emission point **R0300** shall continue to be subject to the facility wide NOx cap of **293** tpy as calculated in ATTACHMENT I.

**III Testing Requirements**

1. Stack testing for emissions of NOx, CO, and VOC's is required from the Reciprocating Engine.

\*\*\*\* CONTINUED\*\*\*\*

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FACILITY ID NUMBER

PROGRAM NUMBER

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**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALCONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0300**

**DATE: March 18, 1996**

2. All required stack testing must be performed and a report submitted to NYSDEC and USEPA within 180 days of initial start-up of the compressor engines, or within 60 days of commercial operation of the facility, whichever comes first. No extensions of this deadline will be granted by NYSDEC.

3. All testing must be done in accordance with protocols approved by NYSDEC in advance of testing. Protocols must be submitted for approval at least 60 days in advance of testing. NYSDEC must be provided with at least 30 days advanced notice of testing. Failure to notify or use approved protocols is grounds for rejection of such tests.

**IV. Compliance Certification.**

**1. Continuous Fuel Monitoring**

a. The facility shall maintain a daily log of hours of operation of each Reciprocating Engine. A separate written log for the rolling daily annual total fuel gas limitation shall also be maintained at the facility. Both logs shall be made available to the DEC and EPA inspectors upon request.

b. The total fuel gas consumption shall be limited to the requirements of V.7 This limitation shall be based on a 365 rolling daily annual total (i.e., totalizing the total fuel consumption over 365 days, where each day starts the summing period for the new 365 day period).

2. NYSDEC reserves the right to inspect this facility as deemed necessary to determine compliance with this permit. Such inspections may be performed without prior notification by NYSDEC. Routine inspections will be made during reasonable business hours, however, NYSDEC reserves the right to enter the facility at any time if there is cause to believe that the facility is in non-compliance.

3. The following alternate emission limit ( 5.1 grams NOx per Brakehorse power hour) has been established. The source owner must continue to investigate compliance strategies and submit an annual report documenting the evaluation of abatement technology and/or process modification. The written report must include the results and specific dates of the testing or evaluation. The name(s) of vendors which can independently verify the testing or engineering evaluation must

DEC PERMIT NUMBER

\*\*\*\*\* continued \*\*\*\*\*

FACILITY ID NUMBER

PROGRAM NUMBER

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**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALGONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0300**

**DATE: March 18, 1996**

4. The Department reserves the right to require the source owner to evaluate and implement innovative technology within a time frame established by the Commissioner's representative as per 621.14(a)(4).

**V. Record Keeping and Reporting**

1. Algonquin Gas must comply with the notification and record keeping requirements of 40 CFR 60.7 for each gas compressor. The major milestones of 40 CFR 60.7 are to notify USEPA and NYSDEC of construction and facility start-up.

2. Algonquin Gas must monitor the amount of fuel burned in each compressor. Such data must be accurate to  $\pm 5\%$ .

3. All copies of reports and notification required under this section must be submitted to the NYSDEC Region 3 office, with **one copy** sent to the NYSDEC, attention: Bureau of Enforcement and Regional Support in Albany. Unless stated otherwise, such reports or notification shall be submitted within (30) days after the end of each calendar year quarter. The addresses for the above offices are as follows:

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New Paltz, NY 12561-1696

NYSDEC  
Bureau of Enforcement and Regional Support  
50 Wolf Road  
Albany, NY 12233-3254

4. All records required by this permit must be kept at the facility for the five most recent years, and must be made available upon request of a NYSDEC authorized agent.

5. 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 (without obstruction) to the operator of the facility. A copy of this summary shall be submitted to NYSDEC prior to facility start-up and is subject to NYSDEC approval.

6. A high energy ignition system with air/fuel ratio controls must be installed

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FACILITY ID NUMBER

PROGRAM NUMBER

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**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALGONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0300**

**DATE: March 18, 1996**

by May 31, 1995.

7. During the Ozone Season( May 1st through September 15th ) the facility shall limit the four reciprocating engines (Clarks) EPs R0100, R0200, R0300, R0400 to a maximum of one hundred and eleven (111 tons NOx).

$$T_{(CLARKS)} = T_{R0100} + T_{R0200} + T_{R0300} + T_{R0400} < 111 \text{ Tons NOx / Ozone Season}$$

$$T_{\text{Ozone Season}} = \sum (T_{\text{Ozone Days}}) < 111 \text{ Tons NOx / Ozone Season}$$

$$T_{\text{Ozone Day}} = \sum (P_{\text{Unit}} * F) / (2000 \text{ pounds/Ton}) = \text{Tons / Day}$$

Where:

$T = \text{NOx Tons/time (day, week or year)}$

$P_{\text{Unit}} = \text{NOx Pounds/mmBTU for the natural gas used as fuel}$

$_{\text{Unit}} =$

(1) Mars (00GT7)	= 0.06 Pounds/mmBTU (maximum)
(2) Centaurs (GT020 & 00006)	= 0.12 Pounds/mmBTU (maximum)
(4) Clarks (R0100, R0200, R0300, R0400)	= 1.40 Pounds/mmBTU (maximum)

Note: Unit numbers are based on the highest results generated during stack testing and the March 12, 1996 letter for the Clark Engines.

$F = \text{mmBTU/day}$

Fuel heat value = 1031 BTU / SCF

8. During the Ozone season the facility must "environmentally dispatch" ( use the three turbine engines prior to utilizing the reciprocating engines) whenever possible. If environmental dispatch is not utilized, then Algonquin must demonstrate and document to the satisfaction of the Department the reason(s) why.

### **VI. Compliance**

Any violation of the conditions of this permit is subject to penalty under Article 71 of the New York State Environmental Conservation Law.

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FACILITY ID NUMBER

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**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALCONQUIN GAS TRANSMISSION CORPORATION****EMISSION POINT: R0300****DATE: March 18, 1996****ATTACHMENT 1****Annual NOx Emissions Cap Formula**

The following general formula will be used to develop Algonquin's monthly monitoring report to the NYSDEC. NOx emissions for the month preceding the report submittal month will be calculated for each engine. The total of emissions from all engines will be the weekly NOx emissions for the preceding 52 weeks will be shown on the report. Fuel heat value and fuel consumed by each engine will be reported as well.

The formula is as follows:

$$T_{\text{station}} = T_{\text{clarks}} + T_{\text{centaurs}} + T_{\text{mars}} < 293 \text{ Tons NOx / Year}$$

$$T_{\text{year}} = \sum (T_{\text{week}} \text{ for the most recent 52 weeks}) < 293 \text{ Tons NOx/YR}$$

$$T_{\text{year}} = \sum (P_{\text{unit}} * F) / (2000 \text{ pounds/Ton}) = \text{Tons / Week}$$

Where:

$$T = \text{NOx Tons/time (week or year)}$$

$$P_{\text{unit}} = \text{NOx Pounds/mmBTU for the natural gas used as fuel}$$

$$\begin{aligned} \text{nit} &= (1) \text{ Mars (100GT7)} &&= 0.06 \text{ Pounds/mmBTU (maximum)} \\ &= (2) \text{ Centaurs (GT020 \& 00006)} &&= 0.12 \text{ Pounds/mmBTU (maximum)} \\ &= (4) \text{ Clarks (R0100, R0200, R0300, R0400)} &&= 1.40^1 \text{ Pounds/mmBTU (maximum)} \end{aligned}$$

<sup>1</sup> - 1.40 will be adjusted after the technology has been proven

Note: Unit numbers are based on the highest results generated during stack testing and the March 12, 1996 letter for the Clark Engines.

$$F = \text{mmBTU/week}$$

$$\text{Fuel heat value} = 1031 \text{ BTU / SCF}$$

DEC PERMIT NUMBER

FACILITY ID NUMBER

PROGRAM NUMBER

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STATIONARY COMBUSTION INSTALLATION

DATE: 9/23/91  
TIME: 10:00 AM  
JAN 2 1991

# STATIONARY COMBUSTION INSTALLATION APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

NAME OF OWNER / FIRM <b>Algonquin Gas Transmission Co.</b>		NAME OF ARCHITECT/ENGINEER <b>ENSR Consulting &amp; Engineering (508)</b>		TELEPHONE <b>617-2500</b>		FACILITY NAME (IF DIFFERENT FROM DIRECT MAILING) <b>Stony Point Compressor Station</b>	
FACILITY LOCATION (CITY, TOWN, VILLAGE, COUNTY, STATE, ZIP) <b>1284 Soldiers Field Road Stony Point, NY 10980</b>		ADDRESS (CITY, TOWN, VILLAGE, COUNTY, STATE, ZIP) <b>35 Nagog Park Stony Point, NY 10980</b>		FLOOR NAME (IF APPLICABLE) <b>Compressor Building 1</b>		FLOOR NAME (IF APPLICABLE) <b>1</b>	
OWNER'S REPRESENTATIVE <b>Timothy C. O'Brien (617) 640-1402</b>		ENGINEER'S REPRESENTATIVE <b>Robert G. McInnes (508) 640-69-1</b>		TELEPHONE <b>635-9500</b>		FACILITY IDENTIFICATION NUMBER <b>SK-1047-005; S-1480-051</b>	
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See Attachments A & B

NAME	CASE NUMBER	ACTUAL	PERMITS	PERMITS	PERMITS	PERMITS	PERMITS	PERMITS	PERMITS
TOTAL PARTICULATES	NY-02-0-0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
OUTER CARBON	NY-02-0-0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
HYDROCARBONS	NY-02-0-0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Carbon Monoxide	NY-02-0-0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Hydrocarbons	NY-02-0-0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

USE PERMIT OR CERTIFICATE FOR THE FACILITY AND THE FACILITY SHALL BE OPERATED IN ACCORDANCE WITH THE PERMIT OR CERTIFICATE.

LOCATION CODE <b>392800073V</b>		FACILITY NO. <b>582056584P23</b>		DATE APPL. RECEIVED <b>9/23/91</b>		DATE APPL. REVIEWED <b>9/23/91</b>		DATE REVIEWED BY <b>S.M.</b>	
PERMIT TO CONSTRUCT		PERMIT TO CONSTRUCT		PERMIT TO CONSTRUCT		PERMIT TO CONSTRUCT		PERMIT TO CONSTRUCT	
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See Attachments regarding PSD Conditions. Stack test required. Facility under PSD.

See Emissions Cap Formula, Stony Point Compressor Station (1781 405) Previously Permitted Value; Manufacturer's Expected Emissions

**SPECIAL CONDITIONS**

For Article (19)  
DIVISION OF AIR

**FACILITY: ALGONQUIN GAS TRANSMISSION CORPORATION**

**EMISSION POINT: R0400**

**DATE: March 18, 1996**

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**I. Emission Limits.**

1. Emission Point **R0400**  
Clark TLA-8 Reciprocating Engine

Emission Limits during Gas Firing:

NOx: 5.1 grams NOx per Brake horsepower hour

CO: 27.1 pounds per hour - (note: based on old PSD limits)

VOC: 12.9 pounds per hour - (note: based on old PSD limits)

2. These limits apply at all loads of operation, except during periods of start-up, malfunctions (as stated in the paragraphs of subdivision 6NYCRR Part 201.5 (d) ) and shutdown (not to exceed three hours per occurrence).

3. All emission limits are based on the higher heating value (HHV) of the fuel being burned.

**II. Operating Limits**

1. The Reciprocating Engine shall fire only natural gas.
2. This emission point **R0400** shall continue to be subject to the facility wide NOx cap of **293** tpy as calculated in ATTACHMENT I.

**III Testing Requirements**

1. Stack testing for emissions of NOx, CO, and VOC's is required from the Reciprocating Engine.

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2. All required stack testing must be performed and a report submitted to NYSDEC and USEPA within 180 days of initial start-up of the compressor engines, or within 60 days of commercial operation of the facility, whichever comes first. No extensions of this deadline will be granted by NYSDEC.

3. All testing must be done in accordance with protocols approved by NYSDEC in advance of testing. Protocols must be submitted for approval at least 60 days in advance of testing. NYSDEC must be provided with at least 30 days advanced notice of testing. Failure to notify or use approved protocols is grounds for rejection of such tests.

**IV. Compliance Certification.**

**1. Continuous Fuel Monitoring**

a. The facility shall maintain a daily log of hours of operation of each Reciprocating Engine. A separate written log for the rolling daily annual total fuel gas limitation shall also be maintained at the facility. Both logs shall be made available to the DEC and EPA inspectors upon request.

b. The total fuel gas consumption shall be limited to the requirements of V.7 This limitation shall be based on a 365 rolling daily annual total (ie., totalizing the total fuel consumption over 365 days, where each day starts the summing period for the new 365 day period).

2. NYSDEC reserves the right to inspect this facility as deemed necessary to determine compliance with this permit. Such inspections may be performed without prior notification by NYSDEC. Routine inspections will be made during reasonable business hours, however, NYSDEC reserves the right to enter the facility at any time if there is cause to believe that the facility is in non-compliance.

3. The following alternate emission limit ( 5.1 grams NOx per Brakehorse power hour) has been established. The source owner must continue to investigate compliance strategies and submit an annual report documenting the evaluation of abatement technology and/or process modification. The written report must include the results and specific dates of the testing or evaluation. The name(s) of vendors which can independently verify the testing or engineering evaluation must

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4. The Department reserves the right to require the source owner to evaluate and implement innovative technology within a time frame established by the Commissioner's representative as per 621.14(a)(4).

**V. Record Keeping and Reporting**

1. Algonquin Gas must comply with the notification and record keeping requirements of 40 CFR 60.7 for each gas compressor. The major milestones of 40 CFR 60.7 are to notify USEPA and NYSDEC of construction and facility start-up.

2. Algonquin Gas must monitor the amount of fuel burned in each compressor. Such data must be accurate to  $\pm 5\%$ .

3. All copies of reports and notification required under this section must be submitted to the NYSDEC Region 3 office, with **one copy** sent to the NYSDEC, attention: Bureau of Enforcement and Regional Support in Albany. Unless stated otherwise, such reports or notification shall be submitted within (30) days after the end of each calendar year quarter. The addresses for the above offices are as follows:

NYSDEC Region 3 office  
Attn: Robert Stanton, RAPCE  
21 South Putt Corners Road  
New Paltz, NY 12561-1696

NYSDEC  
Bureau of Enforcement and Regional Support  
50 Wolf Road  
Albany, NY 12233-3254

4. All records required by this permit must be kept at the facility for the five most recent years, and must be made available upon request of a NYSDEC authorized agent.

5. A summary of the emission limits and operating restrictions<sup>1</sup> of this permit must be posted in the control room of the facility and must be plainly visible (without obstruction) to the operator of the facility. A copy of this summary shall be submitted to NYSDEC prior to facility start-up and is subject to NYSDEC approval.

6. A high energy ignition system with air/fuel ratio controls must be installed

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**EMISSION POINT: R0400**

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by May 31, 1995.

7. During the Ozone Season ( May 1st through September 15th ) the facility shall limit the four reciprocating engines (Clarks) EPs R0100, R0200, R0300, R0400 to a maximum of one hundred and eleven (111 tons NOx).

$$T_{(CLARKS)} = T_{R0100} + T_{R0200} + T_{R0300} + T_{R0400} < 111 \text{ Tons NOx / Ozone Season}$$

$$T_{\text{Ozone Season}} = \sum (T_{\text{Ozone Days}}) < 111 \text{ Tons NOx / Ozone Season}$$

$$T_{\text{Ozone Day}} = \sum (P_{\text{unit}} * F) / (2000 \text{ pounds/Ton}) = \text{Tons / Day}$$

Where:

$T = \text{NOx Tons/time (day, week or year)}$

$P_{\text{unit}} = \text{NOx Pounds/mmBTU for the natural gas used as fuel}$

$\text{unit} =$

(1) Mars (00GT7)	= 0.06 Pounds/mmBTU (maximum)
(2) Centaurs (GTD20 & 00006)	= 0.12 Pounds/mmBTU (maximum)
(4) Clarks (R0100, R0200, R0300, R0400)	= 1.40 Pounds/mmBTU (maximum)

Note: Unit numbers are based on the highest results generated during stack testing and the March 12, 1996 letter for the Clark Engines.

$F = \text{mmBTU/day}$

Fuel heat value = 1031 BTU / SCF

8. During the Ozone season the facility must "environmentally dispatch" ( use the three turbine engines prior to utilizing the reciprocating engines) whenever possible. If environmental dispatch is not utilized, then Algonquin must demonstrate and document to the satisfaction of the Department the reason(s) why.

### **VI. Compliance**

Any violation of the conditions of this permit is subject to penalty under Article 71 of the New York State Environmental Conservation Law.

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**FACILITY: ALCONQUIN GAS TRANSMISSION CORPORATION****EMISSION POINT: R0400****DATE: March 18, 1996****ATTACHMENT 1****Annual NOx Emissions Cap Formula**

The following general formula will be used to develop Algonquin's monthly monitoring report to the NYSDEC. NOx emissions for the month preceding the report submittal month will be calculated for each engine. The total of emissions from all engines will be the weekly NOx emissions for the preceding 52 weeks will be shown on the report. Fuel heat value and fuel consumed by each engine will be reported as well.

The formula is as follows:

$$T_{\text{station}} = T_{\text{Clarks}} + T_{\text{Centaurus}} + T_{\text{Mars}} < 293 \text{ Tons NOx / Year}$$

$$T_{\text{year}} = \sum (T_{\text{week}} \text{ for the most recent 52 weeks}) < 293 \text{ Tons NOx/YR}$$

$$T_{\text{year}} = \sum (P_{\text{unit}} * F) / (2000 \text{ pounds/Ton}) = \text{Tons / Week}$$

Where:

$$T = \text{NOx Tons/time (week or year)}$$

$$P_{\text{unit}} = \text{NOx Pounds/mmBTU for the natural gas used as fuel}$$

$$\begin{aligned} P_{\text{unit}} &= (1) \text{ Mars (00GT7)} &&= 0.06 \text{ Pounds/mmBTU (maximum)} \\ &= (2) \text{ Centaurus (GT020 \& 00006)} &&= 0.12 \text{ Pounds/mmBTU (maximum)} \\ &= (4) \text{ Clarks (R0100, R0200, R0300, R0400)} &&= 1.40^1 \text{ Pounds/mmBTU (maximum)} \end{aligned}$$

<sup>1</sup> - 1.40 will be adjusted after the technology has been proven

Note: Unit numbers are based on the highest results generated during stack testing and the March 12, 1996 letter for the Clark Engines.

$$F = \text{mmBTU/week}$$

$$\text{Fuel heat value} = 1031 \text{ BTU / SCF}$$

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