

*West Virginia Department of Environmental Protection  
Division of Air Quality*

Joe Manchin III  
Governor

Stephanie R. Timmermeyer  
Cabinet Secretary

# General Permit Registration



*Pursuant to  
Title V  
of the Clean Air Act*

**Columbia Gas Transmission Corporation  
Kenova Compressor Station  
R30-NGGP-2007-09900014  
Effective Date: November 12, 2007**

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*John A. Benedict  
Director*

Date Signed: October 24, 2007

Registration Number: **R30-NGGP-2007-09900014**  
Permittee: **Columbia Gas Transmission Corporation**  
Facility Name: **Kenova Compressor Station**  
Mailing Address: 1700 MacCorkle Avenue, SE  
Charleston, WV 25314  
*Permit Contact:* **Kasey Gabbard, NiSource EH&S**  
*Phone:* **(304) 357-2079** *Fax:* **(304) 357-2770**

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*This Registration is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this Registration and of Permit Number R30-NGGP-2007.*

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Facility Location:	Neal, Wayne County, West Virginia
Physical Address:	2000 Big Sandy River Road, Kenova, WV 25530
Mailing Address:	Route 1, Box 75, Kenova, WV 25530
Telephone Number:	(304) 453-7416
Type of Business Entity:	Corporation
Facility ID #:	099-00014
Facility Description:	Natural Gas Transmission Facility
SIC Codes:	4922
UTM Coordinates:	360.9 km Easting • 4248.0 km Northing • Zone 17

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [ §§ 22B-1-1 et seq. ], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*Issuance of this Title V Operating Permit Registration does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.*

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**Emission Units**

<b>Emission Unit ID</b>	<b>Emission Point ID</b>	<b>Emission Unit Description (Make, Model, Serial No.)</b>	<b>Year Installed</b>	<b>Design Capacity</b>	<b>Control Device</b>	<b>Applicable Natural Gas General Permit (R30-NGGP-2007) Sections</b>
<b>Facilitywide</b>						<b>Section 2.0, Section 3.1.1 to 3.1.8, 3.1.14, 3.1.15, 3.2 to 3.5, 3.7.</b>
BLR1*	BL1	Heating System Boiler; Kewanee-Iron Fireman, Model # 84-50	1959	0.275 MMBTU/hr	N/A	<b>Section 4.0</b>
HTR1*	H1	Line Heater; BS&B	1963	1.5 MMBTU/hr	N/A	<b>Section 4.0</b>
02001*	E01	Reciprocating Engine/Integral Compressor; Cooper-Bessemer GMWA-8; 2-cycle, lean burn	1959	2,000 HP	N/A	<b>None</b>
02002*	E02	Reciprocating Engine/Integral Compressor; Cooper-Bessemer GMWA-8; 2-cycle, lean burn	1959	2,000 HP	N/A	<b>None</b>
02003*	E03	Reciprocating Engine/Integral Compressor; Cooper-Bessemer GMWA-8; 2-cycle, lean burn	1959	2,000 HP	N/A	<b>None</b>
02004*	E04	Reciprocating Engine/Integral Compressor; Cooper-Bessemer GMWA-8; 2-cycle, lean burn	1959	2,000 HP	N/A	<b>None</b>
02005*	E05	Reciprocating Engine/Integral Compressor; Ingersoll-Rand 410 KVG-1; 4-cycle, rich burn	1959	1,100 HP	N/A	<b>None</b>
02006*	E06	Reciprocating Engine/Integral Compressor; Ingersoll-Rand 410 KVG-1; 4-cycle, rich burn	1959	1,100 HP	N/A	<b>None</b>
02007*	E07	Reciprocating Engine/Integral Compressor; Ingersoll-Rand 410 KVG-1; 4-cycle, rich burn	1959	1,100 HP	N/A	<b>None</b>
02008*	E08	Reciprocating Engine/Integral Compressor; Ingersoll-Rand 410 KVG-1; 4-cycle, rich burn	1959	1,100 HP	N/A	<b>None</b>
020G3*	G3	Reciprocating Engine/Generator; Waukesha VGF-H24GL; 4-cycle, lean burn	2003	500 HP	N/A	<b>Sections 6.2.2, 6.2.3, 6.3, 6.4. R13-2251C</b>

<b>Emission Unit ID</b>	<b>Emission Point ID</b>	<b>Emission Unit Description (Make, Model, Serial No.)</b>	<b>Year Installed</b>	<b>Design Capacity</b>	<b>Control Device</b>	<b>Applicable Natural Gas General Permit (R30-NGGP-2007) Sections</b>
FLLP1*	FL1	Flare; Columbia Gas, Custom Built	1999	0.002 MMBtu/hr	N/A	<b>Sections 3.1.12, 3.1.13, 12.1.4, 12.1.5 and 12.1.6 R13-2251C</b>
A24	FL1	Mercaptan Tank	1999	1,000 gallon	FL1	<b>R13-2251C</b>

\* All combustion equipment is fueled solely by pipeline quality natural gas.

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**45CSR13 & 45CSR14 permits, Consent Orders and Other Specific Requirements not included in Title V General Permit:**

**1. R13-2251C**



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\_\_\_\_\_  
Facility: \_\_\_\_\_  
Initials: John Legg

**west virginia** department of environmental protection

Division of Air Quality  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
Phone: (304) 926-0475 • Fax: (304) 926-0479

Joe Manchin, III, Governor  
Stephanie R. Timmermeyer, Cabinet Secretary  
www.wvdep.org

**PERMIT TO ADMINISTRATIVELY UPDATE  
A NATURAL GAS COMPRESSOR STATION**

IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL LAW (W. Va. Code §§22-5-1 et seq.), AND REGULATIONS PROMULGATED THEREUNDER, THE FOLLOWING PERMITTEE IS AUTHORIZED TO CONSTRUCT, SUBJECT TO THE TERMS AND CONDITIONS OF THIS PERMIT, THE SOURCE DESCRIBED BELOW.

This permit will supersede and replace Permit R13-2251B approved January 13, 2004.

Name of Permittee: Columbia Gas Transmission Corporation  
Name of Facility: Kenova Compressor Station  
Permit No.: R13-2251C  
Plant ID No.: 099-00014  
Effective Date of Permit: May 3, 2007  
Permit Writer: John Legg  
Facility Mailing Address: 1700 MacCorkle Avenue, SE  
County: Wayne  
Nearest City or Town: Kenova  
UTM Coordinates: Easting: 360.9 km    Northing: 4,248.0 km    Zone: 17  
Directions to: Approximately 2 miles south on US Route 52, from the  
Type of Facility or Modification: Remove Rule 10 (45CSR10) language from permit. Columbia combusts only pipeline quality natural gas that has a maximum total sulfur content of 20 grains/100 scf and a maximum H<sub>2</sub>S content of 0.25 grains/100 scf. On April 11, 2006, the DAQ determined that Rule 10 did not apply to natural gas compressor engines.

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THE SOURCE IS SUBJECT TO 45CSR30. THE PERMITTED FACILITY'S TITLE V (45CSR30) PERMIT R30-099-00014-1996, ISSUED ON AUGUST 27, 1997, MUST BE REVISED BEFORE COMMENCING OPERATION OF THE ACTIVITY (ACTIVITIES) AUTHORIZED BY THIS PERMIT.

Promoting a healthy environment.

IN ACCORDANCE WITH THE PERMIT APPLICATION AND ITS AMENDMENTS, THIS PERMIT IS LIMITED AS FOLLOWS:

**A. SPECIFIC REQUIREMENTS**

1. The maximum annual throughput of mercaptan into 1,000 gallon storage tank A24, shall not exceed 50,000 gallons and the fill rate shall not exceed 250 gallons per hour, exclusive of periods during which a vapor recovery system is in use during tank filling operations. Compliance with the annual mercaptan throughput limit shall be determined using a rolling yearly total. A rolling yearly total shall mean the sum of mercaptan throughput at any given time when a vapor recovery system is not in operation during filling for the previous twelve (12) consecutive months.
2. A 2,000 Btu/hr flare, identified as FLLP1, shall be installed, maintained, and operated so as to achieve a minimum 95.00% destruction efficiency in the control of mercaptan vapors at all times when a vapor recovery system is not available during the filling or maintenance operations of the mercaptan tank (A24) and operate said flare according to the following conditions:
  - a. At all times when a vapor recovery system is not available during filling or as needed during maintenance operations associated with the mercaptan tank A24, the vaporized mercaptan in the tank head space shall be piped to, and combusted by the flare (FLLP1).
  - b. The flare shall operate only during times when the vapor recovery system is not available during filling or maintenance operations of tank A24 and shall operate a maximum of 200 hours annually.
  - c. Emissions of sulfur dioxide from the flare stack shall not exceed 9.7 pounds per hour nor 0.97 tons per year.
3. The pipeline quality of the natural gas to be combusted in the electrical generator (Equipment ID No. 020G3) Waukesha 500 horsepower generator shall not exceed a sulfur content of 20 grains per 100 cubic feet of natural gas.
4. The emergency generator (#020G3) shall be limited to a maximum operating schedule of 500 hours per year.
5. The reciprocating engine/electrical generator (#020G3) Waukesha 500 horsepower generator shall not exceed the emission limits set forth in the following table.

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Emission Point ID No.	Emission Source ID	Design Capacity (bhp)	Pollutant	Emission Limit	
				lb/hr	ton/yr
G3	020G3	500	CO	1.6	0.36
			NOx	1.3	0.29
			PM10	0.0004	trace
			SO2	0.3	trace
			VOC	0.91	0.21
			Formaldehyde	0.28	0.06

**B. OTHER REQUIREMENTS**

1. For the purposes of determining compliance with the annual throughput and hourly limits set forth in Specific Requirements A.1 and A.2.b, the permittee shall maintain records of the annual throughput and the fill rate of mercaptan. An example form is included as Attachment A. Said records shall be certified by a responsible official and shall be maintained on site for a period of five (5) years. Said records shall be made available to the Director of the Division of Air Quality or his/her duly authorized representative upon request.
2. For the purpose of demonstrating compliance with the operating limits set forth in Specific Requirements A.4. and the emission limits set forth in Specific Requirements A.5., the permittee shall maintain records of the hours of operation of the electric generator. To demonstrate compliance with the natural gas quality characteristics, the permittee shall have 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. Said records shall be maintained on site (or be readily available i.e., electronic format) for a period of five (5) years. Said records shall be made available to the Director of the Division of Air Quality of his/her duly authorized representative upon request.
3. The permittee shall comply with all applicable provisions of 45CSR4, 45CSR6, 45CSR13, and 45CSR30, provided that the permittee shall comply with any more stringent requirements as may be set forth under Specific Requirements, Section (A) of this permit.
4. The pertinent sections of 45CSR4 applicable to this facility include, but are not limited to, the following:

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§45-4-3.1

No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.

5. The pertinent sections of 45CSR6 applicable to the flare, identified in permit application R13-2251, R13-2251A, and R13-2251B as FLLP1 include, but are not limited to, the following:

§45-6-4.1

No person shall cause, suffer, allow or permit particulate matter to be discharged from any incinerator into the open air in excess of the quantity determined by use of the following formula:

$$\text{Emissions (lb/hr)} = F \times \text{Incinerator Capacity (tons/hr)}$$

Where, the Factor, F, is as indicated in Table I below:

Table I: Factor, F, for Determining Maximum Allowable Particulate Emissions

<i>Incinerator Capacity</i>	<i>F Factor</i>
A. Less than 15,000 lbs/hr	5.43
B. 15,000 lbs/hr or greater	2.72

§45-6-7.1

At such reasonable times as the Director may designate, the operator of any incinerator shall be required to conduct or have conducted stack tests to determine the particulate matter loading, by using 40 CFR Part 60, Appendix A, Method 5 or other equivalent EPA approved method approved by the Director, in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or the Director's duly authorized representative, may at the Director's option witness or conduct such stack tests. Should the Director exercise his option to conduct such tests, the operator will provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment and the required safety equipment such as scaffolding, railings and ladders to comply with generally accepted good safety practices.

§45-6-7.2

The Director, or the Director's duly authorized representative, may conduct such other tests as the Director may deem necessary to evaluate air pollution emissions other than those noted above.

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6. The pertinent sections of 45CSR13 applicable to this facility include, but are not limited to, the following:

§45-13-6.1

At the time a stationary source is alleged to be in compliance with an applicable emission standard and at reasonable times to be determined by the Secretary thereafter, appropriate tests consisting of visual determinations or conventional in-stack measurements or such other tests the Secretary may specify shall be conducted to determine compliance.

§45-13-10.2

The Secretary may suspend or revoke a permit if, after six (6) months from the date of issuance, the holder of the permit cannot provide the Secretary, at the Secretary's request, with written proof of a good faith effort that construction, modification, or relocation, if applicable, has commenced. Such proof shall be provided not later than thirty (30) days after the Secretary's request. If construction or modification of a stationary source is discontinued for a period of eighteen (18) months or longer, the Secretary may suspend or revoke the permit.

§45-13-10.3

The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based or the conditions established in the permit are not adhered to. Upon notice of the Secretary's intent to suspend, modify or revoke a permit, the permit holder may request a conference with the Secretary in accordance with the provisions of W.Va Code § 22-5-5 to show cause why the permit should not be suspended, modified or revoked.

### C. GENERAL REQUIREMENTS

1. In accordance with 45CSR30 - "Operating Permit Program", the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first filing a Certified Emissions Statement (CES) and paying the appropriate fee. Such Certified Emissions Statement (CES) shall be filed and the appropriate fee paid annually. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
2. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

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3. The permitted facility shall be constructed and operated in accordance with information filed in Permit Application R13-2251, R13-2251A, R13-2251B, R13-2251C and any amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.
4. At such reasonable time(s) as the Secretary may designate, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in the permit application and/or applicable regulations. Test(s) shall be conducted in such a manner as the Secretary may specify or approve and shall be filed in a manner acceptable to the Secretary. The Secretary, or his/her duly authorized representative, may at his option witness or conduct such test. Should the Secretary exercise his option to conduct such test(s), the permittee shall provide all the necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment, and the required safety equipment such as scaffolding, railings, and ladders to comply with generally accepted good safety practices. For any tests to be conducted by the permittee, a test protocol shall be submitted to the DAQ by the permittee at least thirty (30) days prior to the test and shall be approved by the Secretary. The Secretary shall be notified at least fifteen (15) days in advance of the actual dates and times during which the test will be conducted.
5. In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations, either in whole or in part, authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.
6. The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.
7. The permittee shall notify the Secretary, in writing, within fifteen (15) calendar days of the commencement of the construction, modification, or relocation activities authorized under this permit.
8. The permittee shall notify the Secretary, in writing, at least fifteen (15) calendar days prior to actual startup of the operations authorized under this permit.
9. This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13.
10. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties

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for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7.

11. At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous calendar year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a submittal frequency other than on an annual basis.

ISSUED BY: \_\_\_\_\_

  
JOHN A. BENEDICT, DIRECTOR  
WV DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF AIR QUALITY

DATE SIGNED: \_\_\_\_\_

*May 3, 2007*

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