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Facility Name: **Columbia Gas Transmission Corp - Benton**

Application Number: **06-5478**

Date: **August 12, 1998**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as

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an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Columbia Gas Transmission Corp - Benton** located in **Hocking** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

generator

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>
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B003	TEG Dehydrator with reboiler and flare
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B004
Cont'd

B004	Natural gas fired reciprocating engine
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BAT
Determination

Firing of
natural gas
only and VOC
emissions
vented
to a flare

Firing of
natural gas
only

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
		3745-17-07		20 percent opacity as a six minute average
	Applicable Federal & OAC Rules	3745-17-11		0.35 pound/MMBTU and 5.52 TPY of TSP
3745-31-05			.26 pound/hour and 1.2 TPY of NO _x	
			0.5 pound/hour and 2.2 TPY of CO	
			0.51 pound/hour and 2.24 TPY of VOC	
3745-17-07				20 percent opacity as a six minute average
3745-17-10				0.02 pound/MMBTU and 0.16 TPY of TSP
3745-31-05				2.21 pound/hour and 9.7 TPY of NO _x
				1.5 pounds/hour and 6.6 TPY of CO
				0.64 pound/hour and 2.8 TPY of VOC's

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SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
TSP	5.68
NO _x	10.9
VOC	5.04
CO	8.8

CONSTRUCTION STATUS

The **Ohio EPA, Southeast District Office** shall be notified in writing as to (a) the construction starting date, (b) the construction completion date, and (c) the date the facilities were placed into operation for the following sources: **B003 and B004**.

RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

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REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Southeast District Office, 2195 Front Street, Logan, OH 43138.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Southeast District Office, 2195 Front Street, Logan, OH 43138.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

CONSTRUCTION COMPLIANCE CERTIFICATION

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The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be

provided to Ohio EPA upon completion of construction but prior to startup of the source.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

Emissions Unit B003

A. Additional Terms and Conditions

1. The permittee shall burn only natural gas in emissions unit B003.

B. Monitoring and Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in emission units B003.
2. The flare shall be equipped with a thermocouple (Flame Presence Sensor) to continuously monitor the flare's pilot flame and assure proper flare operation.

C. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in emission units B003. Each report shall be submitted within 30 days after the deviation occurs.
2. Semiannually, the permittee shall submit deviation (excursion) reports that identify all time periods during which the pilot flame was absent when the flare is in operation. The report shall include the date, time, and duration of each such period.

D. Testing Requirements

1. Emission Limitation

0.02 pound/MMBTU of TSP for B003

Applicable Compliance Method

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Compliance with the allowable mass emission rate for TSP shall be determined by multiplying an emission factor of 4.5 pounds of TSP per million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 5 specified in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

2. Emission Limitation

0.26 pound/hour of NO_x for B003

Applicable Compliance Method

Compliance with the allowable mass emission rate for NO_x shall be determined by multiplying an emission factor of 100 pounds of NO_x per million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 7 or 7E specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

3. Emission Limitation

0.51 pound/hour of VOC for B003

Applicable Compliance Method

Compliance with the allowable mass emission rate for VOC's shall be determined by multiplying an emission factor of 8.0 pounds of VOC's per million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall

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demonstrate compliance with this emission limitation in accordance with test method 18 or 25 specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

4. Emission Limitation

0.5 pound/hour of CO for B003

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Applicable Compliance Method

Compliance with the allowable mass emission rate for CO shall be determined by multiplying an emission factor of 21.0 pounds of CO per million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 10 specified in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

5. Emission Limitation

20 percent opacity for B003

Applicable Compliance Method

Compliance with the visible emission limit shall be determined through visual emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

E. Miscellaneous Requirements

1. None.

Emissions Unit B004

A. Additional Terms and Conditions

1. The permittee shall burn only natural gas in emissions unit B004.

B. Monitoring and Recordkeeping Requirements

1. For each day during which the permittee burns a fuel

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other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in emission units B004.

C. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in emission units B004. Each report shall be submitted within 30 days after the deviation occurs.

D. Testing Requirements

1. Emission Limitation

0.35 pound/MMBTU of TSP for B004

Applicable Compliance Method

Compliance with the allowable mass emission rate for TSP shall be determined by multiplying an emission factor of 4.5 pounds of TSP per million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 5 specified in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

2. Emission Limitation

2.21 pounds/hour of NO_x for B004

Applicable Compliance Method

Compliance with the allowable mass emission rate for NO_x shall be determined by multiplying an emission factor of 100 pounds of NO_x per million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 7 or 7E specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

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3. Emission Limitation

0.64 pound/hour of VOC for B004

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Applicable Compliance Method

Compliance with the allowable mass emission rate for VOC's shall be determined by multiplying an emission factor of 8.0 pounds of VOC's per million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 18 or 25 specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

4. Emission Limitation

1.5 pounds/hour of CO for B004

Applicable Compliance Method

Compliance with the allowable mass emission rate for CO shall be determined by multiplying an emission factor of 21.0 pounds of CO per million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 10 specified in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

5. Emission Limitation

20 percent opacity for B004

Applicable Compliance Method

Compliance with the visible emission limit shall be determined through visual emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No visible emission testing is

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specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

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E. Miscellaneous Requirements

1. None.