

1

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

Application Number: **03-1165**

Date: **June 10, 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 SOURCE(S)

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 Ohio 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

2

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

Application Number: **03-1165**

Date: **June 10, 1998**

(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 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 prove to be inadequate or 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 15 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.

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.

3

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

Application Number: **03-1165**

Date: **June 10, 1998**

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 made at least 90 days prior to start-up of the source.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for 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, regulations, and policies.

4

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

Application Number: **03-1165**

Date: **June 10, 1998**

Facility Name: **Columbia Gas Transmission Corp-Weaver**
 Application Number: **03-1165**
 Date: **June 10, 1998**

<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>
		VOC/hour 12.3 tons VOC/year		
	Permit Allowable Mass Emissions and/or Control/Usage Requirements	<u>Stack BL2</u>		
		0.02 pound PE/MMBtu 0.06 pound PE/hour 0.26 ton PE/year		
3745-17-07	<u>Stack FL1 (Flare)</u>	0.01 pound SO ₂ /hour 0.044 ton SO ₂ /year		
3745-18-06	Particulate Emissions (PE)/MMBtu	0.4 pound NO _x /hour 1.75 tons NO _x /year		
	0.036 pound PE/hour 0.16 ton PE/year	0.08 pound CO/hour 0.35 ton CO/year		
	0.02 pound SO ₂ /hour 0.088 ton SO ₂ /year	0.02 pound VOC/hour 0.09 ton VOC/year		
	0.2 pound NO _x /hour 0.88 ton NO _x /year	*		
	1.1 pounds CO/hour 4.82 tons CO/year			
	2.8 pounds			

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

Application Number: **03-1165**

Date: **June 10, 1998**

* The emission limit based on this applicable rule is less stringent than the limit established pursuant to OAC 3745-31-05.

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PE	0.42
SO ₂	0.13
NO _x	2.63
CO	5.17
VOC	12.39

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

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

8

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

Application Number: **03-1165**

Date: **June 10, 1998**

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, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402..**

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.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

Introduction

The purpose of this permit-to-install (PTI 03-1165) is to correct a permit deficiency in PTI 03-5971 at Columbia Gas Transmission Corporations - Weaver Compressor Station (hereinafer referred to as "permittee") located in Richland County. A previous permit to install issued for this equipment permitted only the flare. The facility's potential-to-emit of Nitrogen Oxides exceeds 100 tons per year and therefore subjects the facility to Title V permitting.

A. Operational Restrictions

1. Pilot Flame Operational Restriction

A pilot flame shall be maintained at all times in the flare's pilot light burner.

2. This permit allows the use of the materials specified by the permittee in the application for PTI number

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

Application Number: **03-1165**

Date: **June 10, 1998**

03-1165. In conjunction with the best available technology requirements of OAC rule 3745-31-05, the Benzene and Toluene emission limitation(s) specified in this permit were established in accordance with the Ohio EPA's "Air Toxics Policy" and are based on the Gas Research Institute's GRI Glycalc software, Version 3.0 and the design parameters of the emissions unit's exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" was demonstrated for each pollutant based on the Screen 3 model and a comparison of the predicted 1 hour maximum ground-level concentration to the MAGLC. The following summarizes the results of the modeling for each pollutant:

Pollutant: Benzene

TLV (ug/m3): 32000

Maximum Hourly Emission Rate (pounds/hour): 0.5

Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 3.03

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 760

Pollutant: Toluene

TLV (ug/m3): 188,000

Maximum Hourly Emission Rate (pounds/hour): 0.6

Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 3.5

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 4,500

Any of the following changes may be deemed a "modification" to the emission unit and, as such, prior notification to and approval from the Ohio EPA, Northwest District Office are required, including the possible issuance of modifications to PTI number 03-1165 and the operating permit:

- a. any change to the emissions unit or its exhaust parameters (e.g., increased emission rate, reduction of exhaust gas flow rate, and decreased stack height) that would result in an exceedance

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

Application Number: **03-1165**

Date: **June 10, 1998**

of any MAGLC specified in the above table; and,

- b. any change to the emissions unit or its method of operation that would either require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01.

B. Monitoring and/or Recordkeeping Requirements

1. Flare Monitoring and Recordkeeping Requirements

The permittee shall properly install, operate, and maintain a device to continuously monitor the pilot flame when the emissions unit is in operation. The monitoring device and any recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall record the following information each day:

- a. all periods during which there was no pilot flame;
 - b. the operating times for the flare, monitoring equipment, and the associated emissions unit.
2. All records required shall be retained for a period of five years from the date the record was created. All records shall be made available to the Director, or any authorized representative of the Director, for review during normal business hours.

C. Reporting Requirements

1. The permittee shall submit required reports in the following manner:
 - a. Flare Reporting Requirements

The permittee shall submit deviation (excursion) reports that identify all periods during which the pilot flame was not functioning properly. The reports shall include the date, time, and duration

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

Application Number: **03-1165**

Date: **June 10, 1998**

of each such period.

- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA, Northwest District Office. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06).

D. Testing Requirements and Compliance Method Determinations

1. Compliance with the emission limitations in the air emission summary shall be determined in accordance with the following method(s):

- a. Emission Limitation

Stack FL1

0.036 pound PE/hour, 0.16 TPY
0.02 pound/hour sulfur dioxide, 0.088 TPY
0.2 pound/hour nitrogen dioxide, 0.88 TPY
1.1 pounds/hour carbon monoxide, 4.82 TPY
2.8 pounds/hour volatile organic compound, 12.3

TPY

Stack BL2

0.06 pound PE/hour, 0.26 TPY

12

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

Application Number: **03-1165**

Date: **June 10, 1998**

0.01 pound/hour sulfur dioxide, 0.044 TPY
0.4 pound/hour nitrogen dioxide, 1.75 TPY
0.08 pound/hour carbon monoxide, 0.35 TPY
0.02 pound/hour volatile organic compound, 0.09

TPY

Applicable Compliance Method

In the absence of the Ohio EPA requiring emissions testing compliance shall be determined through use of AP-42 emission factors, from Section 1.4, for natural gas combustion multiplied by the maximum hourly gas burning capacity of the emission unit and through the use of emission estimates from the Gas Research Institutes GLYCalc (Version 3) software program.

b. Emission Limitation

0.02 pound Particulate Emission/MM BTU

Applicable Compliance Method

Compliance with the emission limit of 0.02 pound Particulate/MM BTU heat input shall be determined in accordance with OAC 3745-17-03(B)(10). In the absence of Ohio EPA requiring such testing, compliance shall be determined using calculations based on AP-42 emission factor for natural gas combustion.

c. Emission Limitation

20 percent opacity as a six minute average

Applicable Compliance Method

OAC rule 3745-17-03(B)(1)

E. Miscellaneous Requirements

1. The above terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install number 03-5971, as issued on August 21, 1991.

13

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

Application Number: **03-1165**

Date: **June 10, 1998**