

Project Summary

I. INTRODUCTION

This source has applied for a Clean Air Act Permit Program (CAAPP) operating permit for its existing operation. The CAAPP is the program established in Illinois for the operating permits for significant stationary sources required by the federal Clean Air Act, as amended in 1990. The conditions in a CAAPP permit are enforceable by both the Illinois Environmental Protection Agency (Illinois EPA) and the USEPA.

The Panhandle Eastern Pipe Line Company, Waverly is located 1 Mile West on Highway #104. The source employs compressors to transfer gas from the main pipeline to underground storage. Generally the movement of gas into storage occurs during summer months through early fall. Additionally, the compressors at Waverly can recompress and move natural gas through transmission pipelines. Line pressure must be maintained in order to ensure natural gas moves at sufficient volumes for reliable service at all delivery points. These gas compressors are powered by natural gas fired reciprocating engines. These units constitutes the primary source of emissions at the Waverly facility. A triethylene glycol dehydration unit is on-site as well as a desulfurization unit to recondition the natural gas to pipeline quality.

II. EMISSION UNITS

Significant emission units at this source are as follows:

Emission Unit	Description	Rated Heat Input Capacity	Date of Construction	Emission Control Equipment
01	Natural Gas Fired 4 Cycle Rich Burn Engine W3, 550 HP	5.38 mmBtu/hr	1962	None
	Natural Gas Fired 4 Cycle Rich Burn Engine W4, 550	5.38 mmBtu/hr	1963	None

HP			
Natural Gas Fired 4 Cycle Lean Burn Engine W5, 1,000 HP	8.63 mmBtu/hr	1963	None
Natural Gas Fired 4 Cycle Lean Burn Engine W6, 1,000 HP	8.63 mmBtu/hr	1964	None
Natural Gas Fired 2 Cycle Lean Burn Engine W8, 1,350 HP	12.11 mmBtu/hr	1968	None
Natural Gas Fired 4 Cycle Lean Burn Engine W10, 1,100 HP	10.11 mmBtu/hr	1971	None

Emission Unit	Description	Rated Heat Input Capacity	Date of Construction	Emission Control Equipment
02	Dehydration Plant with Natural Gas Fired Dehydration Reboilers D180R, D-159R	1.5 mmBtu/hr each reboiler	1967	None
03	Desulfurization Plant with Amine Reboiler	2.0 mmBtu/hr	1967	None

III. EMISSIONS

This source is required to have a CAAPP permit since it is a major source of emissions.

For purposes of fees, the source is allowed the following emissions:

Pollutant	Tons/Year
Volatile Organic Material (VOM)	125.76
Sulfur Dioxide (SO ₂)	92.34
Particulate Matter (PM)	1.77
Nitrogen Oxides (NO _x)	965.49
HAP, not included in VOM or PM	---
TOTAL	1,285.59

This permit is a combined Title I/CAAPP permit that may contain terms and conditions which address the applicability, and compliance if determined applicable, of Title I of the Clean Air Act and regulations promulgated thereunder, including 40 CFR 52.21 - federal Prevention of Significant Deterioration (PSD) and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within the permit by T1, T1R, or T1N. The source has requested that the Illinois EPA establish or revise such conditions in a Title I permit, consistent with the information provided in the CAAPP application. Any conditions established in a construction permit pursuant to Title I and not revised or deleted in this permit, remain in effect pursuant to Title I provisions until such time that the Illinois EPA revises or deletes them.

IV. APPLICABLE EMISSION STANDARDS

All emission sources in Illinois must comply with the Illinois Pollution Control Board's emission standards. The Board's emission standards represent the basic requirements for sources in Illinois.

All emission sources in Illinois must comply with the federal New Source Performance Standards (NSPS). The Illinois EPA is administering NSPS in Illinois on behalf of the United States EPA under a delegation agreement.

All emission sources in Illinois must comply with the federal National Emission Standards for Hazardous Air Pollutants (NESHAP). The Illinois EPA is administering NESHAP in Illinois on behalf of the United States EPA under a delegation agreement.

V. PROPOSED PERMIT

CAAPP

A CAAPP permit contains all conditions that apply to a source and a listing of the applicable state and federal air pollution control regulations that are the origin of the conditions. The permit also contains emission limits and appropriate compliance procedures. The appropriate compliance procedures may include inspections, work practices, monitoring, record keeping, and reporting to show compliance with these requirements. The Permittee must carry out these procedures on an on-going basis.

Title I

A combined Title I/CAAPP permit contains terms and conditions established by the Illinois EPA pursuant to authority found in Title I provisions, e.g., 40 CFR 52.21 - federal Prevention of Significant Deterioration (PSD) and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Notwithstanding the expiration date on the first page of the permit, the Title I conditions remain in effect pursuant to Title I provisions until the Illinois EPA deletes or revises them in accordance with Title I procedures.

VI. REQUEST FOR COMMENTS

It is the Illinois EPA's preliminary determination that this source's permit application meets the standards for issuance of a CAAPP permit. The Illinois EPA is therefore proposing to issue a CAAPP permit, subject to the conditions proposed in the draft permit.

Comments are requested on this proposed action by the Illinois EPA and the proposed conditions on the draft permit. If substantial public interest is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Adm. Code Part 166.

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