

## 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 Trunkline Gas Company - Tuscola Compressor Station is in a rural location near Tuscola, Illinois. The source uses five (5) reciprocating engines to 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.

The primary sources of pollutants at this source are the natural gas fired reciprocating engines that power the compressors. These units emit combustion products during normal operation and after shutdown pressurized natural gas is vented to the atmosphere (i.e., blowdown emissions). Secondary emission units at the source include various support activities, which are performed at the Tuscola Compressor Station in order to maintain proper operation of the engines and ancillary equipment. These include but are not limited to the following: Separators, which are used to remove liquid condensate from the transmission pipelines; Tank TSG1 which is used to store the condensate prior to its being transported offsite; and fugitive emissions from the leaking pipeline components. Some of these activities have been determined to be insignificant emission units.

For purposes of the CAAPP and Title I of the Clean Air Act, Trunkline Gas Company is considered a single source with Panhandle Eastern Pipe Line Company, I.D. No. 041804AAC, located at 575 East Highway US 36, Tuscola, Illinois. The source has elected to obtain separate CAAPP permits for these locations.

### II. EMISSION UNITS

Significant emission units at this source are as follows:

Unit No.	Description	Emission Control Equipment
6001	Compressor Reciprocating Engine (Clark) Model TLA-6 (2000 Hp)	None
6002	Compressor Reciprocating Engine (Clark) Model TLA-6 (2000 Hp)	None
6003	Compressor Reciprocating Engine (Clark) Model TLA-6 (2000 Hp)	None
6004	Compressor Reciprocating Engine (Clark) Model TLA-6 (2000 Hp)	None
6005	Compressor Reciprocating Engine (Clark) Model TLA-8 (2,700 Hp)	None

Fugitive Emissions	Fugitive Losses from Leaking Piping Components	None
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### 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)	67.77
Sulfur Dioxide (SO <sub>2</sub> )	0.24
Particulate Matter (PM)	19.42
Nitrogen Oxides (NO <sub>x</sub> )	2,679.85
HAP, Not Included in VOM or Particulate Matter	----
Total	2,767.28

### 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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