Stantec

Title V Operating Permit Renewal Application

Permit Number V-20-028 R1

September 2025

Prepared for:

ANR Pipeline Company
Madisonville Compressor Station
Madisonville, Hopkins County, Kentucky

Prepared by:

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Alpharetta, Georgia 30009

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LIST OF APPENDICES

1.0 INTRODUCTION

ANR Pipeline Company (ANR) owns and operates the Madisonville Compressor Station in Madisonville, Hopkins County, Kentucky. The Madisonville Compressor Station is classified as a major source under Title V regulations. Consistent with Federal Part 70 requirements, Kentucky's Department for Environmental Protection (DEP) Title V Operating Permit program is published under Chapter 401 of the Kentucky Administrative Regulations (KAR). The facility is a major source of Carbon Monoxide (CO) and Carbon Dioxide Equivalent (CO_2e).

1.1 DOCUMENT PURPOSE

Madisonville Compressor Station currently operates under Kentucky Title V Operating Permit No. V-20-028 R1. This permit was issued on April 13, 2021, revised on May 10, 2022, and is scheduled to expire on April 13, 2026. The renewal application is due by October 13, 2025, six months prior to the permit expiration.

This submittal constitutes the renewal application required by the referenced Title V Permit.

1.2 PERMIT REQUEST

ANR is committed to demonstrating compliance with all federal and state air quality permitting requirements. This permit application demonstrates compliance with both federal and state requirements for permit renewal. This application is intended to satisfy all requirements of Title V of the 1990 Clean Air Act (CAA) as encoded in 40 CFR Part 70 and in 401 Kentucky Air Regulations (KAR) 52:020, Section 12, "Title V Permits".

Section 503(d) of the CAA provides that, once a timely and complete application for an operating permit has been filed, the applicant is shielded from enforcement action for operating without a permit until the permit has been issued or other action has been taken on the application. Therefore, by submitting this application, ANR requests a permit shield to avoid enforcement action for operating without a permit during the period in which this permit application is under review if the current permit expires before a new permit is issued.

By signing the DEP7007AI application form provided by the Kentucky Energy and Environmental Cabinet, the responsible official certifies that this submittal constitutes a complete application. The responsible official for the Madisonville facility has provided the required certification, and ANR requests that the Kentucky Energy and Environmental Cabinet provide the determination that this application is complete. Pursuant to 40 CFR 70.7, the application is deemed complete if a notice of incompleteness is not received within 60 days. There are no fees associated with a Title V Renewal application in Kentucky.

1.3 CONTACT INFORMATION

If there are any questions or comments regarding this application, please contact Melinda Holdsworth of TC Energy at (832) 320-5665 or via email at Melinda_Holdsworth@tcenergy.com.

1.4 REPORT ORGANIZATION

The remainder of this renewal application is divided into the following sections and appendices:

- Section 2.0: Facility Information
- Section 3.0: Regulatory Applicability Summary
- Appendix A: Application Form
- Appendix B: Facility Map, Plot Plan and Process Flow Diagram
- Appendix C: Emission Calculations
- Appendix D: Secretary of State Documentation

The table of contents contains a detailed listing of sections and appendices. The required form for a Title V renewal with no modifications (DEP7007AI) is located in Appendix A.

2.0 FACILITY INFORMATION

2.1 SITE LOCATION

ANR's Madisonville Station is located in Madisonville, Hopkins County, Kentucky. Figure 1 of Appendix B is an aerial photograph that identifies the plant layout.

Hopkins County is designated as "attainment" or "unclassifiable" for all pollutants for which National Ambient Air Quality Standards (NAAQS) have been promulgated.

The operations at the station are categorized under Standard Industrial Classification code 4922, *Natural Gas Transmission*, and under the North American Industry Classification System code 486210, *Pipeline Transportation of Natural Gas*.

2.2 EMISSION SOURCE DESCRIPTION

The facility transports natural gas along the pipeline by receiving inlet natural gas and compressing the gas to increase the pressure in the pipeline and maintain the downstream flow.

The Madisonville Compressor Station consists of one (1) 15,473 hp natural gas-fired Solar Mars 100 turbine (EU011), one (1) 22,759 hp natural gas-fired Solar Titan 130 turbine (EU012), one (1) 880 hp natural gas-fired emergency generator (EU013), and one (1) 1.6 MMBtu/hr natural gas-fired fuel gas heater (EU014).

Table 2-1: Description of Significant Emission Units

Emission Unit #	Description of Emission Unit
EU011	15,473 hp Stationary Gas Compressor Turbine Solar Mars 100
EU012	22,759 hp Stationary Gas Compressor Turbine Solar Titan 130
EU013	880 hp Internal Combustion Emergency Engine/Generator Waukesha VGF-L36GL (4SLB)
EU014	1.6 MMBtu/hr Fuel Gas Heater

None of these emission units use add-on emission control equipment to reduce emissions, and thus, the station is exempt from the compliance assurance monitoring (CAM) requirements in 40 CFR 64 (see Section 3.4 for further explanation).

The Madisonville Compressor Station includes a number of insignificant emission sources pursuant to 401 KAR 52:020, Section 6. Insignificant activities at the Madisonville Compressor Station are identified in Table 2-2 below.

Table 2-2: Insignificant Activities under 401 KAR 52:020, Section 6

Equipment ID	Description of Insignificant Activity
IA1	Thirty (30) Natural Gas-Fired Space Heaters (0.0725 MMBtu/hr each)
T1	12,000 Gallon Condensate Storage Tank
T16	1,200 Gallon Wastewater Storage Tank
FUG	Fugitive Emissions (includes fugitives from equipment leaks and blowdowns)
N/A	Maintenance Welding and Painting
N/A	Two (2) Solvent Parts Washers

2.3 REVISIONS TO THE PERMIT

There have been no changes to significant emission sources at the station since the issuance of the current permit. There are no proposed modifications to the Madisonville Compressor Station as a result of this renewal application. Any changes in emissions represented in this renewal application are related directly to the use of updated emission factors, updated fugitive component counts, calculation methods, updated fuel consumption data, natural gas heating contents, or rounding. The facility remains a major source under Title V regulations.

3.0 REGULATORY APPLICABILITY SUMMARY

The Madisonville Station is subject to a variety of federal and state air quality regulations which are discussed in this section.

3.1 PREVENTION OF SIGNIFICANT DETERIORATION

Madisonville Compressor Station is located in Hopkins County, which is designated by the U.S. EPA 40 CFR §81.318 as "attainment" or "unclassifiable" for all criteria pollutants. As such, new construction or modifications that result in emission increases are potentially subject to the Prevention of Significant Deterioration (PSD) permitting regulations. PSD applicability depends on the existing status of the facility (i.e., major or minor source) and the net emission increases associated with the project.

The Madisonville Compressor Station is not a major stationary source under PSD regulations because the potential to emit is not greater than 250 tons per year for any regulated air pollutants.

ANR is not requesting any modification with this application that would subject emission units at the Madisonville Compressor Station to PSD requirements.

3.2 NEW SOURCE PERFORMANCE STANDARDS (NSPS)

NSPS contained in 40 CFR 60 require new, modified, or reconstructed sources to control emissions to the level achievable by the best demonstrated technology as specified in the relevant regulations. These NSPS regulations were reviewed to determine their applicability to the Madisonville Station equipment or to confirm non-applicability as appropriate. The results of this review are summarized below by regulatory citation.

3.2.1 40 CFR 60 Subpart Dc - Standards of Performance for Small Industrial-Commercial- Institutional Steam Generating Units

Subpart Dc applies to steam generating units with a maximum design heat input capacity of greater than or equal to 10 MMBtu/hr, but less than or equal to 100 MMBtu/hr, which are constructed, modified or reconstructed after June 9, 1989 (per 40 CFR §60.40c(a)). Steam generating units are defined in 40 CFR §60.41c as devices that combust fuel and heat water or any heat transfer medium. There are no steam generating units at this facility greater than 10 MMBtu/hr. Therefore, this regulation is not applicable.

3.2.2 40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973 and prior to May 19, 1978

Subpart K applies to petroleum storage vessels with storage capacity greater than 40,000 gallons for which construction, reconstruction, or modification commenced after June 11, 1973 and prior to May 19, 1978. There are no petroleum storage vessels with capacity greater than 40,000 gallons at this facility. Therefore, this regulation is not applicable.

3.2.3 40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978 and prior to July 23, 1984

Subpart Ka applies to petroleum storage vessels with storage capacity greater than 40,000 gallons for which construction, reconstruction, or modification commenced after May 18, 1978 and prior to July 23, 1984. There are no petroleum storage vessels with capacity greater than 40,000 gallons at this facility. Therefore, this regulation is not applicable.

3.2.4 40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 and On or Before October 4, 2023

Subpart Kb applies to volatile organic liquid storage vessels with storage capacity greater than 75 cubic meters (19,812.9 gallons) for which construction, reconstruction, or modification commenced after July 23, 1984, and on or before October 4, 2023. There are no volatile organic liquid storage vessels with capacity greater than 75 cubic meters (19,812.9 gallons) at this facility. Therefore, this regulation is not applicable.

3.2.5 40 CFR 60 Subpart Kc - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After October 4, 2023

Subpart Kc applies to storage vessels for which construction, reconstruction, or modification commenced after October 4, 2023. There are no volatile organic liquid storage vessels with capacity greater than or equal to 75.7 cubic meters (20,000 gallons) at this facility and all storage vessels commenced construction prior to the applicability date. Therefore, this regulation is not applicable.

3.2.6 40 CFR 60 Subpart GG - Standards of Performance for Stationary Gas Turbines

Subpart GG applies to stationary gas turbines for which construction, modification, or reconstruction commenced after October 3, 1977. The Solar Mars and Solar Titan turbines (EU011 and EU012) are

regulated under 40 CFR 60 Subpart KKKK and are, therefore, exempt from the requirements of Subpart GG (40 CFR §60.4305(b)).

3.2.7 40 CFR 60 Subpart KKK - Standards of Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants for Which Construction, Reconstruction, or Modification Commenced After January 20, 1984, and on or Before August 23, 2011

Subpart KKK applies to onshore natural gas processing plants. This regulation is not applicable to the Madisonville Station because the facility is not a natural gas processing plant as defined in the regulation.

3.2.8 40 CFR 60 Subpart LLL - Standards of Performance for SO2 Emissions From Onshore Natural Gas Processing for Which Construction, Reconstruction, or Modification Commenced After January 20, 1984, and on or Before August 23, 2011

Subpart LLL applies to facilities that process natural gas: each sweetening unit, and each sweetening unit followed by a sulfur recovery unit. The Madisonville Station does not operate a sweetening unit or a sulfur recovery unit. Therefore, this regulation is not applicable.

3.2.9 40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (CI ICE)

Subpart IIII applies to manufacturers, owners, and operators of stationary CI ICE. The Madisonville Station does not operate any stationary CI ICE; therefore, this regulation does not apply.

3.2.10 40 CFR 60 Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (SI ICE)

Subpart JJJJ applies to manufacturers, owners, and operators of stationary SI ICE constructed after January 1, 2009. The emergency generator (EU013) at the Madisonville Compressor Station is rated at 880 horsepower and was manufactured after 2009. Therefore, this engine is subject to the requirements of Subpart JJJJ. The Madisonville Station will continue to comply with this rule as it applies to this emission unit.

3.2.11 40 CFR 60 Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

Subpart KKKK applies to stationary combustion turbines that commenced construction, modification, or reconstruction after February 18, 2005. This regulation is applicable to the Madisonville Compressor Station because the Solar Mars and Solar Titan turbines (EU011 and EU012) have a peak heat input of greater than 10 MMBtu/hr and were constructed after February 18, 2005. The turbines are subject to the requirements of Subpart KKKK and will continue to comply with the applicable requirements.

3.2.12 40 CFR 60 Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015

Subpart OOOO establishes emission standards and compliance schedules for the control of volatile organic compounds (VOC) and sulfur dioxide (SO_2) emissions from affected facilities in the crude oil and natural gas source category that commence construction, modification, or reconstruction after August 23, 2011, and on or before September 18, 2015. The requirements defined for transmission sources are not applicable to this site.

3.2.13 40 CFR 60 Subpart OOOOa - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015, and on or before December 6, 2022

Subpart OOOOa establishes emission standards and compliance schedules for the control of VOC and SO_2 emissions from affected facilities in the crude oil and natural gas source category that commence construction, modification, or reconstruction after September 18, 2015, and on or before December 6, 2022. The Madisonville Compressor Station installed two natural gas turbines (EU011 and EU012) in 2021 resulting in a horsepower increase and causing the facility to be subject to the provisions of this subpart for the collection of fugitive emission components at the compressor station per 40 CFR §60.5365a(j). There are no other affected facilities (as listed in 40 CFR §60.5365a(a) through (h)) at the compressor station. The fugitive emissions components at the facility currently comply and will continue to comply with the applicable requirements of the regulation.

3.2.14 40 CFR 60 Subpart OOOOb - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After December 6, 2022

Subpart OOOOb establishes emission standards and compliance schedules for the control of VOC and SO_2 emissions from affected facilities in the crude oil and natural gas source category that commence construction, modification, or reconstruction after December 6, 2022. The Madisonville Compressor Station is considered a natural gas compression facility and is potentially subject to this regulation. However, all equipment and processes potentially subject to this regulation commenced construction prior to the applicability date and have not been modified or reconstructed. Therefore, this regulation does not apply.

3.2.15 40 CFR 60 Subpart OOOOc - Emissions Guidelines for Greenhouse Gas Emissions From Existing Crude Oil and Natural Gas Facilities

Subpart OOOOc establishes emission guidelines and compliance schedules for the control of greenhouse gas (GHG) emissions from designated facilities in the crude oil and natural gas source

category. The issuance of Subpart OOOOc under CAA section 111(d) does not impose binding requirements directly on existing sources. Instead, Subpart OOOOc instructs states in the development, submission, and implementation of state plans to establish performance standards to reduce GHG emissions from designated facilities that are existing sources (commenced construction, modification, or reconstruction on or before December 6, 2022) in the Crude Oil and Natural Gas source category. Each state with a designated facility must develop, adopt, and submit to the EPA its state plan by March 9, 2026. The EPA will evaluate the plan for completeness and then act on the plan via a rulemaking process to either approve or disapprove, in whole or in part. If the EPA approves a state's plan, the provisions in the state plan become federally enforceable with respect to the designated facilities responsible for compliance in the same manner as the provisions of an approved state implementation plan (SIP) are federally enforceable under CAA section 110.

Once the state's plan has been approved and is federally enforceable, Madisonville Compressor Station will evaluate to determine any actions that need to be taken to comply with the new regulations for this station. If a state does not submit a plan for the Emissions Guidelines under Subpart OOOOc by the deadline (March 9, 2026), or if the submitted plan is disapproved by the EPA, the EPA will step in and develop a Federal plan to implement the emission guidelines. This ensures that the guidelines are still enforced, even if the state does not have its own plan in place.

3.3 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP)

Federal NESHAP regulations promulgated pursuant to Section 112 of the CAA are found in 40 CFR Parts 61 and 63. In general, NESHAP, or Maximum Achievable Control Technology (MACT) standards apply to major stationary sources of HAP emissions, defined as potential-to-emit of 10 tons or more per year of any single HAP or 25 tons or more per year of any combination of HAP and area stationary sources of HAP emissions (thresholds less than a major source). The Madisonville Station is considered an area source of HAPs. Potentially applicable NESHAPs are discussed below.

3.3.1 40 CFR 61 Subpart M - National Emission Standard for Asbestos

The Madisonville Station may at times engage in demolition and/or renovation activities involving asbestos-containing materials (ACM). Therefore, the facility could be potentially subject to Subpart M, Standards for Demolition and Renovation (40 CFR §61.145). Procedures are in place to ensure the facility complies with these standards.

3.3.2 40 CFR 61 Subpart V - National Emission Standard for Equipment Leaks (Fugitive Emission Sources)

This regulation is not applicable to the Madisonville Station because the provisions of this subpart apply to sources that are intended to operate in volatile hazardous air pollutant (VHAP) service. "In VHAP service means that a piece of equipment either contains or contacts a fluid (liquid or gas) that is at least

10 percent by weight a volatile hazardous air pollutant (VHAP) as determined according to the provisions of 61.245(d)." The Madisonville Station does not have any sources that operate in VHAP service.

3.3.3 40 CFR 63 Subpart A - General Provisions

This regulation has general provisions that are referenced by other more specific NESHAP regulations.

3.3.4 40 CFR 63 Subpart HH - NESHAP from Oil and Natural Gas Production Facilities

This regulation is not applicable to the Madisonville Station because the facility is a transmission and storage facility and is not an oil and gas production facility as defined in this regulation.

3.3.5 40 CFR 63 Subpart HHH - NESHAP from Natural Gas Transmission and Storage Facilities

Subpart HHH establishes national emission limitations and operating limitations for natural gas transmission and storage facilities that are major sources of HAP emissions. The rule affects facilities that transport or store natural gas prior to entering the pipeline to a local distribution company or to a final user. The Madisonville Station does not operate an affected source (glycol dehydration unit) and is an area source of HAPs. Therefore, the facility is not subject to this regulation.

3.3.6 40 CFR 63 Subpart YYYY - NESHAP for Stationary Combustion Turbines

NESHAP Subpart YYYY regulates stationary combustion turbines located at major sources of HAP emissions. The Madisonville Station is an area source of HAPs. Therefore, this regulation is not applicable.

3.3.7 40 CFR 63 Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE)

NESHAP Subpart ZZZZ regulates HAP emissions from existing, new, and reconstructed stationary compression ignition (CI) and spark ignition (SI), emergency and non-emergency, RICE located at major and area sources of HAP emissions. NESHAP Subpart ZZZZ is applicable to the emergency generator. However, for this source type, Subpart ZZZZ requirements are met by complying with NSPS Subpart JJJJ as described above.

3.3.8 40 CFR 63 Subpart DDDDD - NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters

The Industrial/Commercial/Institutional Boilers and Process Heaters NESHAP for major sources was promulgated on March 21, 2011, and regulates HAP emissions from new and existing industrial, commercial, or institutional boilers and process heaters located at major sources of HAP emissions. The Madisonville Station is an area source of HAPs. Therefore, this regulation is not applicable.

3.3.9 40 CFR 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial and Institutional Boilers Area Sources

The Industrial/Commercial/Institutional Boilers for area sources was promulgated on March 21, 2011, and regulates HAP emissions from industrial, commercial, or institutional boilers located at area sources of HAP emissions. The Madisonville Station does not operate any boilers. Therefore, this regulation is not applicable.

3.4 COMPLIANCE ASSURANCE MONITORING (CAM)

Enhanced monitoring requirements have been adopted into 40 CFR 64. The enhanced monitoring requirements are referred to as Compliance Assurance Monitoring (CAM). CAM is applicable to sources that have a potential to emit in excess of major source thresholds, not considering "tailpipe" emission controls, and use an "active" control device to achieve compliance with the emission limit. Combustion controls may be considered in evaluating the potential to emit.

An emission unit is subject to CAM if all of the following criteria are satisfied:

- the unit is located at a major source that is required to obtain a Part 70 or Part 71 permit;
- the unit is subject to an emission limitation or standard for a regulated air pollutant;
- the unit uses an active control device to achieve compliance with any such emission limit or standard, and
- the unit has potential pre-controlled emissions of the applicable air pollutant above the major source threshold.

Potential emissions from each turbine are less than the Part 70 major source threshold. Additionally, the turbines do not use any add-on emission controls and are subject to a federal NSPS promulgated after 1990. The emergency generator and fuel gas heater are below the major source thresholds for all pollutants. Therefore, the CAM rule does not apply to these turbines, the emergency generator, or the fuel gas heater.

3.5 CHEMICAL ACCIDENT PREVENTION PROVISIONS AND RISK MANAGEMENT PLAN

The Madisonville Station is not subject to the Chemical Accident Prevention Provisions of 40 CFR Part 68. Applicability to this regulation is based on the type and quantity of certain regulated substances stored at a facility, and the Madisonville Station does not exceed the applicability thresholds (40 CFR 68.10). The facility is not considered a stationary source under 40 CFR 68.3 (Chemical Accident Prevention) because it is regulated under 49 CFR 192, DOT.

3.6 ACID RAIN REGULATIONS

The Madisonville Station is not subject to the federal acid rain regulations found in 40 CFR Parts 72 through 77 because the Station does not own or operate an affected unit as defined in 40 CFR 72.6.

3.7 MANDATORY GREENHOUSE GAS REPORTING 40 CFR 98 SUBPARTS C AND W

The Madisonville Station is subject to Subparts C (General Stationary Fuel Combustion Sources) and W (Petroleum and Natural Gas Systems) of the Mandatory Greenhouse Gas Reporting Rule. The annual report must be submitted no later than March 31 of each calendar year for GHG emissions in the previous calendar year. The Madisonville Station is subject to these requirements; however, there are no requirements in the rule for inclusion into the Title V permit program. Additionally, the Madisonville Station emits more than 25,000 metric tons of CO_2e per year and is, therefore, required to submit an annual report pursuant to 40 CFR 98.2.

3.8 SIP AND STATE ONLY REGULATIONS 401 KAR CHAPTER 50 AND CHAPTER 52

The applicable requirements under 401 KAR Chapter 50 (Air Quality General Administrative Procedures) and Chapter 52 (Air Quality Permits, Registrations, and Prohibitory Rules) are currently incorporated into the permit. There are no new requirements that need to be incorporated into the Title V permit renewal.

Appendix A

APPLICATION FORM

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

DEP7007AI

Administrative Information

- ✓ Section AI.1: Source Information
- ✓ Section AI.2: Applicant Information
- ✓ Section AI.3: Owner Information
- ✓ Section AI.4: Type of Application
- ✓ Section AI.5: Other Required Information
- ✓ Section AI.6: Signature Block
- ___ Section AI.7: Notes, Comments, and Explanations

Additional Documentation

✓ Additional Documentation attached

Source Name: **Madisonville Compressor Station**

KY EIS (AFS) #: **21- 107-00134**

Permit #: **V-20-028 R1**

Agency Interest (AI) ID: **44049**

Date: **2-Sep-25**

Section AI.1: Source Information

Physical Location Address:	**Street:**	7500 Nebo Road				
	City:	Madisonville	**County:**	Hopkins	**Zip Code:**	42431
Mailing Address:	**Street or P.O. Box:**	700 Louisiana Street, Suite 700				
	City:	Houston	**State:**	TX	**Zip Code:**	77002

Standard Coordinates for Source Physical Location

Longitude: 37.3825 (decimal degrees) **Latitude:** -87.61861 (decimal degrees)

Primary (NAICS) Category: Pipeline Transportation of Natural Gas **Primary NAICS #:** 486210

#

Classification (SIC) Category: Natural Gas Transmission **Primary SIC #:** 4922

Briefly discuss the type of business conducted at this site: The Station receives natural gas via pipeline from upstream sources, compresses it, and then transmits the gas via pipeline to downstream compressor stations.

Description of Area Surrounding Source: ☑ Rural Area ☐ Industrial Park ☐ Residential Area ☐ Urban Area ☐ Industrial Area ☐ Commercial Area

Is any part of the source located on federal land? ☐ Yes ☑ No

Number of Employees: 5

Approximate distance to nearest residence or commercial property: *Approximately 400 feet*

Property Area: 18.8 acres

Is this source portable? ☐ Yes ☑ No

What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?

NPDES/KPDES:	☑ Currently Hold	☐ Need	☐ N/A
Solid Waste:	☐ Currently Hold	☐ Need	☑ N/A
RCRA:	☑ Currently Hold	☐ Need	☐ N/A
UST:	☐ Currently Hold	☐ Need	☑ N/A

Type of Regulated Waste Activity:

☑ Mixed Waste Generator ☑ Generator ☐ Recycler ☐ Other: _____

☐ U.S. Importer of Hazardous Waste ☐ Transporter ☐ Treatment/Storage/Disposal Facility ☐ N/A

Section AI.2: Applicant Information

Applicant Name: ANR Pipeline Company

Title: (if individual)

Mailing Address:
Street or P.O. Box: 700 Louisiana Street, Suite 700
City: Houston **State:** TX **Zip Code:** 77002

Email: (if individual)

Phone:

Technical Contact

Name: Melinda Holdsworth

Title: Air Specialist - USNG Air Emissions and Reporting

Mailing Address:
Street or P.O. Box: 700 Louisiana Street, Suite 700
City: Houston **State:** TX **Zip Code:** 77002

Email: Melinda_Holdsworth@tcenergy.com

Phone: (832) 320-5665

Air Permit Contact for Source

Name: Melinda Holdsworth

Title: Air Specialist - USNG Air Emissions and Reporting

Mailing Address:
Street or P.O. Box: 700 Louisiana Street, Suite 700
City: Houston **State:** TX **Zip Code:** 77002

Email: Melinda_Holdsworth@tcenergy.com

Phone: (832) 320-5665

Section AI.3: Owner Information

☑ **Owner same as applicant**

Name: _____

Title: _____

Mailing Address: **Street or P.O. Box:** _____

City: _____ **State:** _____ **Zip Code:** _____

Email: _____

Phone: _____

List names of owners and officers of the company who have an interest in the company of 5% or more.

Name	Position

Section AI.4: Type of Application

Current Status: ☑ Title V ☐ Conditional Major ☐ State-Origin ☐ General Permit ☐ Registration ☐ None

Requested Action: *(check all that apply)*

☐ Name Change	☐ Initial Registration	☐ Significant Revision	☐ Administrative Permit Amendment
☑ Renewal Permit	☐ Revised Registration	☐ Minor Revision	☐ Initial Source-wide OperatingPermit
☐ 502(b)(10)Change	☐ Extension Request	☐ Addition of New Facility	☐ Portable Plant Relocation Notice
☐ Revision	☐ Off Permit Change	☐ Landfill Alternate Compliance Submittal	☐ Modification of Existing Facilities
☐ Ownership Change	☐ Closure		

Requested Status: ☑ Title V ☐ Conditional Major ☐ State-Origin ☐ PSD ☐ NSR ☐ Other: _____

Is the source requesting a limitation of potential emissions? ☐ Yes ☑ No

Pollutant:	Requested Limit:	Pollutant:	Requested Limit:
☐ Particulate Matter		☐ Single HAP	
☐ Volatile Organic Compounds (VOC)		☐ Combined HAPs	
☐ Carbon Monoxide		☐ Air Toxics (40 CFR 68, Subpart F)	
☐ Nitrogen Oxides		☐ Carbon Dioxide	
☐ Sulfur Dioxide		☐ Greenhouse Gases (GHG)	
☐ Lead		☐ Other	

For New Construction:

Proposed Start Date of Construction: *(MM/YYYY)* _____ **Proposed Operation Start-Up Date:** *(MM/YYYY)* _____

For Modifications:

Proposed Start Date of Modification: *(MM/YYYY)* _____ **Proposed Operation Start-Up Date:** *(MM/YYYY)* _____

Applicant is seeking coverage under a permit shield. ☐ **Yes** ☑ **No** **Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.**

Section AI.5 Other Required Information

Indicate the documents attached as part of this application:

- ☐ DEP7007A Indirect Heat Exchangers and Turbines
- ☐ DEP7007B Manufacturing or Processing Operations
- ☐ DEP7007C Incinerators and Waste Burners
- ☐ DEP7007F Episode Standby Plan
- ☐ DEP7007J Volatile Liquid Storage
- ☐ DEP7007K Surface Coating or Printing Operations
- ☐ DEP7007L Mineral Processes
- ☐ DEP7007M Metal Cleaning Degreasers
- ☐ DEP7007N Source Emissions Profile
- ☐ DEP7007P Perchloroethylene Dry Cleaning Systems
- ☐ DEP7007R Emission Offset Credit
- ☐ DEP7007S Service Stations
- ☐ DEP7007T Metal Plating and Surface Treatment Operations
- ☐ DEP7007V Applicable Requirements and Compliance Activities
- ☐ DEP7007Y Good Engineering Practice and Stack Height Determination
- ☐ DEP7007AA Compliance Schedule for Non-complying Emission Units
- ☐ DEP7007BB Certified Progress Report
- ☐ DEP7007CC Compliance Certification
- ☐ DEP7007DD Insignificant Activities
- ☐ DEP7007EE Internal Combustion Engines
- ☐ DEP7007FF Secondary Aluminum Processing
- ☐ DEP7007GG Control Equipment
- ☐ DEP7007HH Haul Roads
- ☐ Confidentiality Claim
- ☐ Ownership Change Form
- ☑ Secretary of State Certificate
- ☑ Flowcharts or diagrams depicting process
- ☐ Digital Line Graphs (DLG) files of buldings, roads, etc.
- ☑ Site Map
- ☑ Map or drawing depicting location of facility
- ☐ Safety Data Sheet (SDS)
- ☐ Emergency Response Plan
- ☑ Other: Emission Calculations

Section AI.6: Signature Block

I, the undersigned, hereby certify under penalty of law, that I am a responsible official*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.

	Sep 8, 2025
Authorized Signature	**Date**
Charles (Brad) Willoughby	Operations Manager
Type or Printed Name of Signatory	**Title of Signatory**

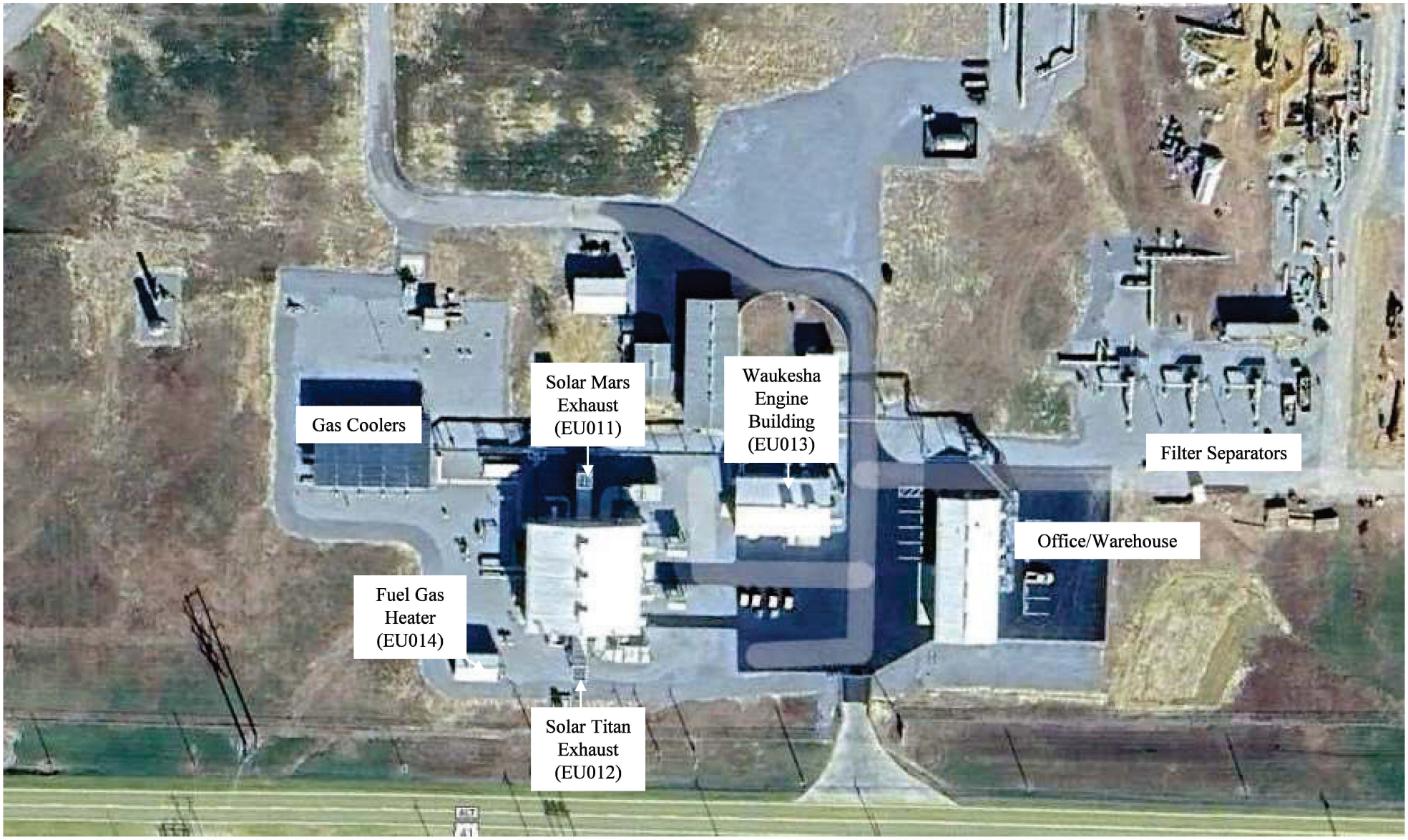
*Responsible official as defined by 401 KAR 52:001.

Section AI.7: Notes, Comments, and Explanations

Appendix B

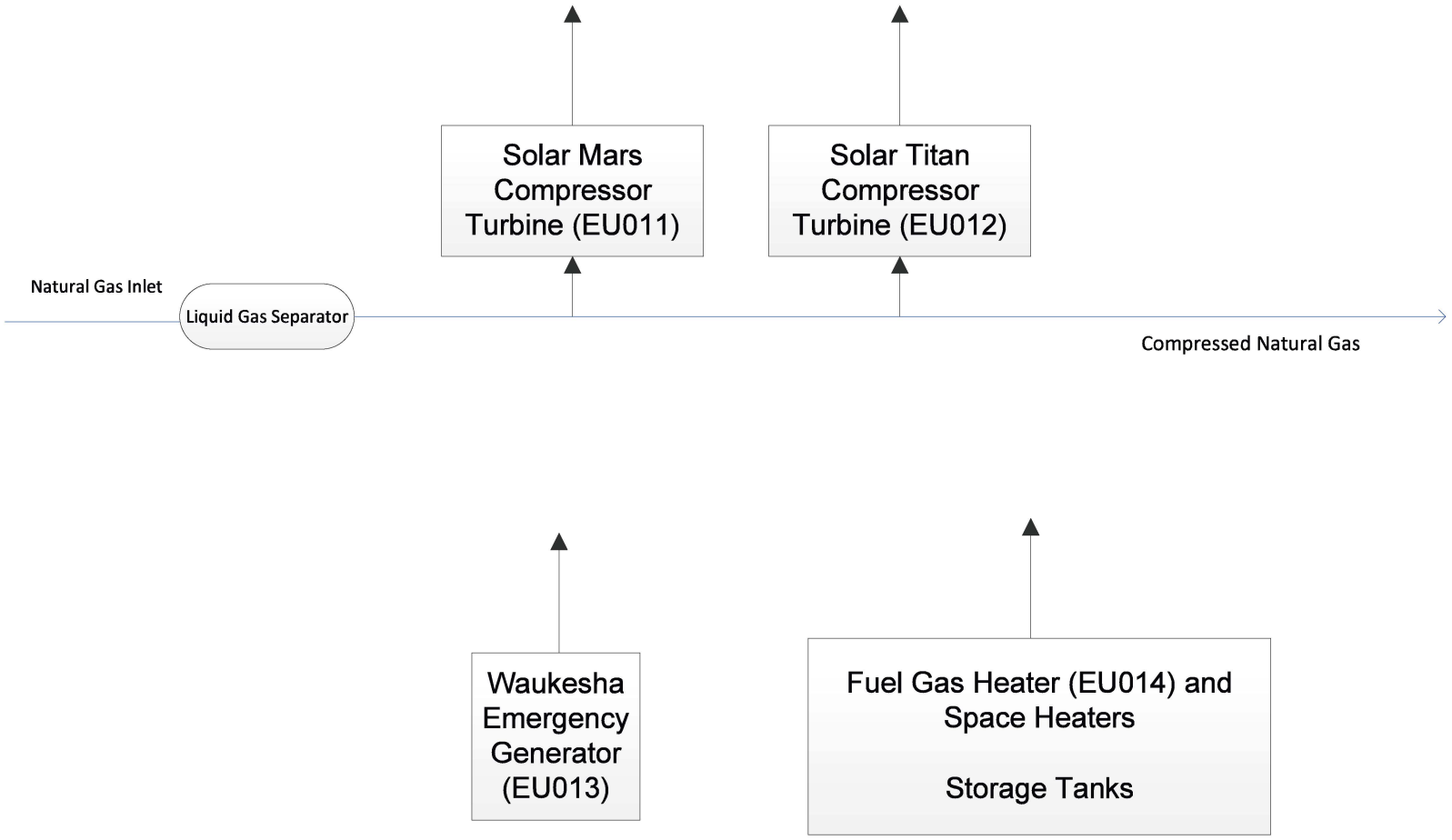
FACILITY MAP, PLOT PLAN AND PROCESS FLOW DIAGRAM

ANR Pipeline Company – Madisonville Compressor Station	TC Energy	September 2025
Figure 1 – Facility Map		



ANR Pipeline Company – Madisonville Compressor Station	TC Energy	September 2025
Figure 2 - Plot Plan		

Appendix B
Figure 3
ANR Pipeline Company
Madisonville Compressor Station Process Flow Diagram



Appendix C

EMISSION CALCULATIONS

ANR Pipeline Company
Madisonville Compressor Station
Title V Renewal Application

Facility Total PTE

Source	Capacity	Annual Emissions (tpy)							
		NO_x	CO	CO_2e	$PM_{10}/PM_{2.5}$	VOC	SO_2	CH_2O	Total HAP
EU 011 (711) - Solar Mars 100 Turbine	15,473 hp (32 °F)	32.04	78.13	65,156	3.67	6.55	0.40	0.40	0.57
EU 012 (712) - Solar Titan 130 Turbine	22,759 hp (32 °F)	43.75	89.99	88,487	4.99	6.43	0.54	0.54	0.78
EU 013 (713) - Waukesha VGF-L36GL Emergency Generator	880 hp	0.97	1.94	200	0.02	0.49	0.001	0.0922	0.125
EU 014 - Fuel Gas Heater	1.60 MMBtu/hr	0.69	0.58	820	0.05	0.04	0.005	0.0005	0.01
Equipment Leaks (fugitive emissions)				1,144		0.52			0.001
Venting				16,244		7.37			0.03
Facility PTE		77.46	170.63	172,052	8.73	21.39	0.94	1.02	1.52

ANR Pipeline Company
Madisonville Compressor Station
Title V Renewal Application
Solar Mars 100 Turbine (EU 011)

Horsepower	15,473	hp (32 °F)
Brake Specific Fuel Consumption	7808	Btu/Bhp-hr (LHV, 32 °F)
Total Heat Input	114.47	MMBtu/hr (LHV, 32 °F)
	127.06	MMBtu/hr (HHV, 32 °F)[3]
Maximum Heat Input (at 0 °F)	126.81	MMBtu/hr (LHV, 0 °F)
	140.76	MMBtu/hr (HHV, 0 °F)[3]
Operating Hours	8760	hr/yr
Natural Gas Heat Content[5]	1020	Btu/scf
Fuel Consumption	1091.24	MMscf/yr (based on 32°F)
	137,999.1	scf/hr (based on 0 °F)
Quantity	1	

Pollutant	Emission Factor			Emission Rate		Emission Factor Reference
	ppmvd@15%O_2	lb/MMBtu		lb/hr[1]	ton/yr[2]	
NO_x	15.00	0.060	LHV	7.24	32.04	Vendor Data
CO	25.00	0.061	LHV	7.34	78.13	Vendor Data
CO_2e		117.1	HHV	14,876	65,156	40 CFR 98 Subpart C
PM_{10}		0.0066	HHV	0.84	3.67	AP-42 Table 3.1-2a (4/00)
$PM_{2.5}$		0.0066	HHV	0.84	3.67	AP-42 Table 3.1-2a (4/00)
VOC	5.00	0.007	LHV	0.84	6.55	Vendor Data (20% of UHC)[4]
SO_2 (Maximum Hourly)		0.0571	HHV	7.26		20 grains S / 100 scf
SO_2 (Average Annual)		0.000714	HHV		0.40	0.25 grains S / 100 scf
Formaldehyde		0.00071	HHV	0.09	0.40	AP-42 Table 3.1-3 (4/00)
Total HAPs		0.00103	HHV	0.13	0.57	AP-42 Table 3.1-3 (4/00)

1. Maximum hourly emission rate based on normal operation at 32 °F. Heat input, fuel consumption, and emissions increase as temperature decreases, and for the purpose of this application, hourly emissions are characterized by Solar emissions data for 32 °F.

2. Annual emission rate based on combination of potential operating modes as provided on following page for NOx, CO, and VOC. The operating modes are 100 hours at low load (low load hours are based on <50% load), 200 hours of low temperature (<0F) and 200 startups and shutdowns per year. The remainder of the hours per year are based on emissions at normal load (32 °F). Normal operation is considered to be 50%-100% load. All other pollutants are based on horsepower and brake specific fuel consumption at 32 °F.

3. HHV heat input based on HHV=1.11*LHV

4. VOC based on 20% of vendor data for unburned hydrocarbon.

5. A heat content of 1020 btu/scf was used in the calculations. This is a conservative estimate and is not representative of the site.

ANR Pipeline Company
Madisonville Compressor Station
Title V Renewal Application
Solar Mars 100 (EU 011) - Emission Rates

Emission Rates per Operating Mode

Operating Mode	Units	NO_x	CO	VOC
Normal Load @ 32°F[1]	lb/hr	7.24	7.34	0.84
Low Temp (<0 °F)[1]	lb/hr	7.61	7.72	0.88
Low-Load (<40%)[2]	lb/hr	14.00	851.00	48.60
Startup/ Shutdown[3]	lb/event	2.00	40.00	5.00

1. Based on data from Solar Mars 100-16000S Compressor Set Predicted Emission Performance data sheet and the following concentrations:
15 ppm NOx; 25 ppm CO; 5 ppm VOC
2. For the purpose of calculating potential annual emissions, non-startup/shutdown operation at <40% load is based on emissions data provided by Solar for 30% load.
3. Based on data from Solar PIL170 for SoLoNOx CS/MD Application Nominal Start-up and Shutdown, Natural Gas Fuel, Production Units with Enhanced Emissions Control

Potential Annual Emissions Per Turbine

Operating Mode	Operating Time		NO_x	CO	VOC
	Cycles	hr/yr	ton/yr	ton/yr	ton/yr
Normal Load @ 32 °F		8393	30.38	30.80	3.53
Low Temp (<0 °F)		200	0.76	0.77	0.09
Low-Load (<40%)[1]		100	0.70	42.55	2.43
Startup/ Shutdown	200	67	0.20	4.00	0.50
Total		8,760	32.04	78.13	6.55

1. Historical weather data from the past five years indicates that there are approximately four (4) days per year that have at least one hour with temperature less than 0F. The calculations assume 200 hours per year to be conservative and account for variability in the weather. https://w2.weather.gov/climate/getclimate.php?wfo=pah

Emission Rates During Normal Operation (g/hp-hr)[1]

Emission Point ID / Model	NO_x	CO	VOC[2]	SO_2[3]	PM_{10} / $PM_{2.5}$	CH_2O
EP 011 / Solar Mars 100	0.22	0.22	0.02	0.21	*0.02*	*0.003*

1. Based on vendor performance data; values in italics based on AP-42 emission factors.
2. VOC is based on 20 percent of unburned hydrocarbons per Solar Product Information Letter 168.
3. Conservatively based on 20 grains sulfur per 100 standard cubic feet of natural gas for maximum short-term emissions.

ANR Pipeline Company
Madisonville Compressor Station
Title V Renewal Application
Solar Titan 130 Turbine (EU 012)

Horsepower	22,759	hp (32 °F)
Brake Specific Fuel Consumption	7238	Btu/Bhp-hr (LHV, 32 °F)
Total Heat Input	155.46	MMBtu/hr (LHV, 32 °F)
	172.56	MMBtu/hr (HHV, 32 °F)[3]
Maximum Heat Input (at 0 °F)	173.43	MMBtu/hr (LHV, 0 °F)
	192.51	MMBtu/hr (HHV, 0 °F)[3]
Operating Hours	8760	hr/yr
Natural Gas Heat Content[5]	1020	Btu/scf
Fuel Consumption	1481.99	MMscf/yr (based on 32°F)
	188,732.6	scf/hr (based on 0 °F)
Quantity	1	

Pollutant	Emission Factor			Emission Rate		Emission Factor Reference
	ppmvd@15%O_2	lb/MMBtu		lb/hr[1]	ton/yr[2]	
NO_x	15.00	0.060	LHV	9.88	43.75	Vendor Data
CO	25.00	0.061	LHV	10.03	89.99	Vendor Data
CO_2e		117.1	HHV	20,203	88,487	40 CFR 98 Subpart C
PM_{10}		0.0066	HHV	1.14	4.99	AP-42 Table 3.1-2a (4/00)
$PM_{2.5}$		0.0066	HHV	1.14	4.99	AP-42 Table 3.1-2a (4/00)
VOC	5.00	0.007	LHV	1.15	6.43	Vendor Data (20% of UHC)[4]
SO_2 (Maximum Hourly)		0.0571	HHV	9.85		20 grains S / 100 scf
SO_2 (Average Annual)		0.000714	HHV		0.54	0.25 grains S / 100 scf
Formaldehyde		0.00071	HHV	0.12	0.54	AP-42 Table 3.1-3 (4/00)
Total HAPs		0.00103	HHV	0.18	0.78	AP-42 Table 3.1-3 (4/00)

1. Maximum hourly emission rate based on normal operation at 32 °F. Heat input, fuel consumption, and emissions increase as temperature decreases, and for the purpose of this application, hourly emissions are characterized by Solar emissions data for 32 °F.

2. Annual emission rate based on combination of potential operating modes as provided on following page for NOx, CO, and VOC. The operating modes are 100 hours at low load (low load hours are based on <50% load), 200 hours of low temperature (<0F) and 200 startups and shutdowns per year. The remainder of the hours per year are based on emissions at normal load (32 °F). Normal operation is considered to be 50%-100% load. All other pollutants are based on horsepower and brake specific fuel consumption at 32 °F.

3. HHV heat input based on HHV=1.11*LHV

4. VOC based on 20% of vendor data for unburned hydrocarbon.

5. A heat content of 1020 btu/scf was used in the calculations. This is a conservative estimate and is not representative of the site.

ANR Pipeline Company
Madisonville Compressor Station
Title V Renewal Application
Solar Titan 130 (EU 012) - Emission Rates

Emission Rates per Operating Mode

Operating Mode	Units	NO_x	CO	VOC
Normal Load @ 32°F[1]	lb/hr	9.88	10.03	1.15
Low Temp (<0 °F)[1]	lb/hr	10.42	10.58	1.21
Low-Load (<40%)[2]	lb/hr	20.97	850.77	9.72
Startup/ Shutdown[3]	lb/event	2.00	43.00	10.00

1. Based on data from Solar Titan 130-23502S Compressor Set Predicted Emission Performance data sheet and the following concentrations:
15 ppm NOx; 25 ppm CO; 5 ppm VOC
2. For the purpose of calculating potential annual emissions, non-startup/shutdown operation at <50% load is based on emissions data provided by Solar for 40% load.
3. Based on data from Solar PIL170 for SoLoNOx CS/MD Application Nominal Start-up and Shutdown, Natural Gas Fuel, Production Units with Enhanced Emissions Control

Potential Annual Emissions Per Turbine

Operating Mode	Operating Time		NO_x	CO	VOC
	Cycles	hr/yr	ton/yr	ton/yr	ton/yr
Normal Load @ 32 °F		8393	41.46	42.09	4.82
Low-Load (<40%)[1]		200	1.04	1.06	0.12
Low-Load (<40%)		100	1.05	42.54	0.49
Startup/ Shutdown	200	67	0.20	4.30	1.00
Total		8,760	43.75	89.99	6.43

1. Historical weather data from the past five years indicates that there are approximately four (4) days per year that have at least one hour with temperature less than 0F. The calculations assume 200 hours per year to be conservative and account for variability in the weather. https://w2.weather.gov/climate/getclimate.php?wfo=pah

Emission Rates During Normal Operation (g/hp-hr)[1]

Emission Point ID / Model	NO_x	CO	VOC[2]	SO_2[3]	PM_{10} / $PM_{2.5}$	CH_2O
EP 012 / Solar Titan 130	0.20	0.20	0.02	0.20	*0.02*	*0.002*

1. Based on vendor performance data; values in italics based on AP-42 emission factors.
2. VOC is based on 20 percent of unburned hydrocarbons per Solar Product Information Letter 168.
3. Conservatively based on 20 grains sulfur per 100 standard cubic feet of natural gas for maximum short-term emissions.

ANR Pipeline Company
Madisonville Compressor Station
Title V Renewal Application
Waukesha VGF-L36GL Emergency Generator (EU 013)

Horsepower	880	hp
Brake Specific Fuel Consumption	7758	Btu/Bhp-hr (HHV)
	7013	Btu/Bhp-hr (LHV)
Total Heat Input	6.83	MMBtu/hr
Operating Hours	500	hr/yr
Natural Gas Heat Content	1020	Btu/scf
Fuel Consumption	3.35	MMscf/yr
	6693.2	scf/hr

Pollutant	Emission Factor		Emission Rate		Emission Factor Reference
	g/bhp-hr	lb/MMBtu	lb/hr	ton/yr	
NO_x	2.00		3.88	0.97	NSPS JJJJ Limit
CO	4.00		7.76	1.94	NSPS JJJJ Limit
CO_2e		117.1	799	200	40 CFR 98 Subpart C
PM_{10}		0.010	0.07	0.017	AP-42 Table 3.2-2 (7/00) - 4SLB
$PM_{2.5}$		0.010	0.07	0.017	AP-42 Table 3.2-2 (7/00) - 4SLB
VOC	1.00		1.94	0.49	NSPS JJJJ Limit
SO_2 (Maximum Hourly)		0.0571	0.39		20 grains S / 100 scf
SO_2 (Average Annual)		0.000714		1.22E-03	0.25 grains S / 100 scf
Formaldehyde[1]	0.19		0.37	0.09	Vendor Data
Total HAPs		0.07339	0.50	0.13	AP-42 Table 3.2-2 (7/00) - 4SLB

1. Emission factors generated by EngCalc Program Version 4.0 INNIO Waukesha Gas Engines, Inc; 5/31/2019.

ANR Pipeline Company
Madisonville Compressor Station
Title V Renewal Application
Fuel Gas Heater (EU 014)

Heat Input	1.60	MMBtu/hr
Operating Hours	8760	hr/yr
Natural Gas Heat Content	1020	Btu/scf
Fuel Consumption	13.74	MMscf/yr
	1568.6	scf/hr

Pollutant	Emission Factor		Emission Rate		Emission Factor Reference
	lb/MMscf	lb/MMBtu	lb/hr	ton/yr	
NO_x	100	0.098	0.16	0.69	AP-42 Table 1.4-1 (7/98)
CO	84	0.082	0.13	0.58	AP-42 Table 1.4-1 (7/98)
CO_2e		117.1	187	820	40 CFR 98 Subpart C
PM_{10}	7.6	0.007	1.19E-02	0.05	AP-42 Table 1.4-2 (7/98)
$PM_{2.5}$	7.6	0.007	1.19E-02	0.05	AP-42 Table 1.4-2 (7/98)
VOC	5.5	0.005	8.63E-03	0.04	AP-42 Table 1.4-2 (7/98)
SO_2 (Maximum Hourly)		0.0571	0.09		20 grains S / 100 scf
SO_2 (Average Annual)		0.000714		5.00E-03	0.25 grains S / 100 scf
Formaldehyde	0.075	0.00007	1.18E-04	5.15E-04	AP-42 Table 1.4-3 (7/98)
Total HAPs	1.89	0.00185	2.96E-03	1.30E-02	AP-42 Table 1.4-3 & 4 (7/98)

SITEWIDE FUGITIVE EMISSION CALCULATIONS
ANR Pipeline Company
Madisonville Compressor Station

Annual Hours of Operation: 8760
Component Count Buffer: 10%
Ideal gas law conversion factor: 379.48 scf/lb-mole
Conversion lb to ton: 2000
Conversion kg to lb: 2.20

Component Type	Number of Components [1]	Fugitive Emission Factor [2,3]	Emissions								
			Total Hydrocarbons		VOC		HAP [4]		CH4	CO2	CO2e [5]
		(lb/hr/component)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(tpy)	(tpy)	(tpy)
Valves	744	0.0099	7.3811	32.3291	0.0805	0.3526	0.0001	0.0003	27.7352	0.1562	776.7429
Flange	992	0.0009	0.8529	3.7358	0.0093	0.0407	0.0000	0.0000	3.2050	0.0181	89.7570
Connectors	1457	0.0004	0.6424	2.8138	0.0070	0.0307	0.0000	0.0000	2.4140	0.0136	67.6054
Open-Ended Lines	0	0.0044	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pressure Relief Valves	7	0.0194	0.1358	0.5948	0.0015	0.0065	0.0000	0.0000	0.5103	0.0029	14.2913
Pump Seals	18	0.0053	0.0952	0.4171	0.0010	0.0045	0.0000	0.0000	0.3579	0.0020	10.0225
Other	5	0.0194	0.0970	0.4249	0.0011	0.0046	0.0000	0.0000	0.3645	0.0021	10.2081
Low Continuous Bleed Controllers	0	0.3088	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Continuous Bleed Controllers	0	1.3622	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Intermittent Bleed Controllers	16	0.1044	1.6709	7.3187	0.0182	0.0798	0.0000	0.0001	6.2787	0.0354	175.8403
					Total:	**0.52**		**0.00**	**40.87**	**0.23**	**1144.47**

1 Number of components based on site-specific component count or similar facility with a 10% buffer for a conservative count.
2 Fugitive emission factor from EPA-453/R-95-017, Table 2-4 - November 1995 Guidance - Oil & Gas Production Operations Average Emission Factors' from 'Protocol for Equipment Leak Emission Estimates'.
3 Fugitive emission factor for controllers from 40 CFR 98, Subpart W, Table W-1.
4 Gas composition of C6+ from site specific analysis. HAP composition is based on GRI-GLYCALC factors for Transmission & Storage Industry Segment.
5 40 CFR 98, Subpart A, Table A-1 - CO2e is carbon dioxide equivalent, which is the summation of CO2 (GWP = 1) + CH4 (GWP = 28) + N2O (GWP = 265); Revised 4/25/2024, Effective 1/1/2025.

GAS ANALYSIS:

Weight%:	
VOC	1.09%
HAP	0.00%
CH4	85.79%
CO2	0.48%
Gas Molecular Weight:	17.23
Gas Specific Gravity:	0.59
Molecular Weight of Air:	28.97
Density of Gas Sample (lb/scf):	4.55

ANR Pipeline Company
Madisonville Compressor Station
Title V Renewal Application
Emissions from Venting

Number of Pneumatic Actuators:	10	per turbine
Pneumatic Actuator Vent Rate:	3	scf/hr/actuator
Number of Startup/Shutdown Cycles:	200	per turbine per year
Electric Starter Emissions per Startup:	0	scf
Blowdown Emissions per Shutdown:	70,481	scf
Number of Turbines	2	
Number of Dry Seals:	2	per turbine
Dry Seal Vent Rate:	0.5	scf/min/seal
Annual Operating Hours:	8760	

Component	Emission Rate									
	Total	CH_4[2]	CO_2[2]	CH_4[3]	CO_2[3]	CH_4	CO_2	CO_2e[4]	VOC[6]	HAP[7]
Continuous During Operation	**scf/hr**	**scf/hr**	**scf/hr**	**lb/hr**	**lb/hr**	**ton/yr**	**ton/yr**	**ton/yr**	**ton/yr**	**ton/yr**
Pneumatic Actuator (Total for number of units)	57.00	52.52	0.11	2.22	0.01	9.74	0.05	272.71	0.12	0.00
Dry Seals (Total for number of units)	120.00	110.57	0.23	4.68	0.03	20.50	0.12	574.12	0.26	0.00
Intermittent During Startup/Shutdown	**scf/event**	**scf/event**	**scf/event**	**lb/event**	**lb/event**	**ton/yr**	**ton/yr**	**ton/yr**	**ton/yr**	**ton/yr**
Electric Starter (Total for number of units)[1]	0	0	0	0	0	0	0	0	0.00	0.00
Blowdowns (Total for number of units)[1,5]	140,962	129,889	267	5,498	31	550	3	15,398	6.98	0.03
							Total:	16,244	7.37	0.03

1. Emission rates per event instead of per hour
2. CH_4 and CO_2 emission rates based on 92.14 vol% CH_4 and 0.19 vol% CO_2 in natural gas
3. Conversion based on densities of GHG as provided in 40 CFR 98.233(v)
4. Based on 40 CFR 98 Subpart A Global Warming Potentials
5. Conservative estimate based on 1 blowdown per shutdown. It is not expected that a blowdown will occur after each shutdown.
6. Based on a 0.0127 ratio of VOC to methane as calculated from gas composition.
7. Based on a 0.00006 ratio of hexane to methane as calculated from gas composition

Appendix D

SECRETARY OF STATE DOCUMENTATION

PARP

0566250
Michael G. Adams
KY Secretary of State
Received and Filed
5/10/2025 9:02:22 AM
Fee receipt: $15.00

Commonwealth of Kentucky
Michael G. Adams, Secretary of St

Michael G. Adams
Secretary of State
P. O. Box 1150
Frankfort, KY 40602-1150
(502) 564-3490
http://www.sos.ky.gov

Annual Report
Online Filing
For the Year 2025

ARP

Company: ANR PIPELINE COMPANY
Company ID: 0566250
State of origin: Delaware
Formation date: 8/15/2003 12:00:00 AM
Date filed: 5/10/2025 9:02:00 AM
Fee: $15.00

Principal Office

SUITE 1300 700 LOUISIANA STREET
HOUSTON, TX 77002

Registered Agent Name/Address

CORPORATION SERVICE COMPANY
421 WEST MAIN STREET
FRANKFORT, KY 40601

Current Officers

President	David Brast	700 Louisiana Street, Suite 1300 Houston, TX 77002
Treasurer	Burton D. Cole	700 Louisiana Street, Suite 1300 Houston, TX 77002

Directors

Director	Meera Kothari	700 Louisiana Street, Suite 1300 Houston, TX 77002
Director	Joshua Gibbon	700 Louisiana Street, Suite 1300 Houston, TX 77002
Director	David Brast	700 Louisiana Street, Suite 1300 Houston, TX 77002

County: POWELL
Business size: Medium
Business type: Electric, Gas and Sanitary Services

Signatures

Signature David Brast
Title President

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007M

Metal Cleaning Degreasers

✓ Section M.1: Cold Cleaning Degreasers Only
__ Section M.2: Open Top Vapors Degreasers
__ Section M.3: Conveyorized Degreasers
__ Section M.4: Notes, Comments, and Explanations

Additional Documentation

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG

✓ Attach SDS for solvent

Source: **Madisonville Compressor Station**

KY EIS (AFS) #: **21- 107-00134**

Permit #: **V-20-028 R1**

Agency Interest (AI) ID: **44049**

Date: **5/12/2026**

Section M.1: Cold Cleaning Degreasers Only

Emission Unit #: CC#1

Emission Unit Name: Cold Cleaner

Control Device/Stack #: N/A

Manufacturer: Safety-Kleen

Model/Serial Number: Model 250

Proposed/Actual Date of Construction Commencement (MM/YYYY)**:** existing

Type: ☐ Dip Tank ☑ Spray Sink

Maximum Operating Schedule:

1	1	12
Hours/Day	Days/Week	Weeks/Year

Solvent Information

Trade Name: PREMIUM SOLVENT

Manufacturer: SAFETY-KLEEN

Maximum Amount Solvent Used: 5 gal/hr 60 gal/yr

Maximum Volatility at 100°F: VOC Vapor Pressure: <1.0 mmHg @ 20°C mmHg

Equipment Design

Inside dimensions of tank: Width (ft): 2.83 Length (ft): 2.08 Depth (ft): 0.5 Freeboard Height (ft):

If heated, indicate temperature: 103 °F

If sprayed, indicate spray pressure: psi

If agitation is utilized, indicate type: ☐ Pumped ☐ Air ☐ Mechanical ☐ Ultrasonic

If drainage board is utilized, indicate type: ☐ Internal ☐ External

Is a tank cover utilized? ☑ Yes ☐ No

If external, is drainage return used? ☐ Yes ☐ No

Operating Procedure

Is degreaser cover closed during degreaser operation? ☐ Yes ☑ No

Is degreaser cover closed when degreaser is not in use? ☑ Yes ☐ No

Are parts dry before removal from drying rack? ☑ Yes ☐ No

Describe disposal of waste solvent and sludge: Safety Kleen services quarterly.

Control Devices:

Identify if any are utilized: ☐ Refrigerated ☐ Water Spray ☐ Carbon Adsorption ☐ Freeboard Ratio greater than or equal to 0.7

Other *(specify)* :

Section M.2: Open Top Vapor Degreasers

Emission Unit #: _____

Emission Unit Name: _____

Control Device/Stack #: _____

Manufacturer: _____

Model/Serial #: _____

Proposed/Actual Date of Commencement Construction (MM/YYYY): _____

Maximum Operating Schedule:

Hours/Day	Days/Week	Weeks/Year

Solvent Information

Trade Name: _____

Manufacturer: _____

Maximum Amount Solvent Used: _____ gal/hr _____ gal/yr

Maximum Volatility at 100°F: _____ mmHg

Equipment Design

Inside dimensions of tank: Width (ft): _____ Length (ft): _____ Depth (ft): _____ Freeboard Height (ft): _____

If sprayed, indicate spray pressure: _____ psi

Type of Safety Switches

Choose all that apply:

☐ Condenser flow switch and thermostat ☐ Spray safety switch ☐ Vapor level control thermostat

Type of Vapor Level Controls

Choose all that apply: ☐ Chilled Water or Refrigerant ☐ Condensing Coil ☐ None

Temperature of cooling liquid: (°F) _____

Method of Heating

Choose all that apply: ☐ Gas ☐ Steam ☐ Electric

Rating: _____ Btu/hr kW

Type of Cleaning Action (choose all that apply)

Choose all that apply: ☐ Sonic ☐ Spray ☐ Vapor Condensation ☐ Immersion in liquid ☐ Mechanical Mixing

Other (specify):

Tank Cover (choose all that apply)

Choose all that apply: ☐ Automatic ☐ Manual ☐ None

Is the tank covered when not in use? ☐ Yes ☐ No

Describe disposal of waste solvent and sludge:

Control Device

Identify if any are utilized: ☐ Enclosed Design ☐ Carbon Adsoprtion ☐ Refrigerated Chiller ☐ Freeboard Ratio greater than or equal to 0.75

Other *(specify):*

Air Flow

Are the parts to be degreased moved in and out at a vertical speed of less than 11 ft/min? ☐ Yes ☐ No

What is the exhaust air flow? _____ cfm

Section M.3: Conveyorized Degreasers

Emission Unit #: _____

Emission Unit Name: _____

Control Device/Stack #: _____

Manufacturer: _____

Model/Serial No.: _____

Proposed/Actual Date of Commencement Construction (MM/YYYY): _____

Type: ☐ Cold Solvent ☐ Vapor Degreasing

Maximum Operating Schedule:

Hours/Day	Days/Week	Weeks/Year

Solvent Information

Trade Name: _____

Manufacturer: _____

Maximum Amount Solvent Used: _____ gal/hr _____ gal/yr

Maximum Volatility at 100°F: _____ mmHg

Equipment Design

Inside dimensions of tank: Width (ft): _____ Length (ft): _____ Depth (ft): _____ Freeboard Height (ft): _____

Is the tank covered when not in use? ☐ Yes ☐ No

If sprayed, indicate spray pressure: _____ psi

Indicate if any of the following are utilized: ☐ Drying Tunnel ☐ Tumbling or Rotating Baskets

Describe the work load design specifications:

Type of Safety Switches

Choose all that apply:

☐ Condenser flow switch and thermostat ☐ Spray safety switch ☐ Vapor level control thermostat

Method of Heating

Choose all that apply: ☐ Gas ☐ Steam ☐ Electric

Rating: _____ Btu/hr kW

Control Device

Identify if any are utilized: ☐ Refrigerated Chiller ☐ Carbon Adsorption

Other: (specify)

Operating Parameters

Actual conveyor speed: _____ ft/min

Flow rate of exhaust: _____ cfm

Maximum vertical conveyor speed at exit or entrance of the degreaser: _____ ft/min

Temperature of solvent bath: _____ °F °C

Describe disposal of waste solvent, sludge from the still and solvent from the adsorber:

Section M.4: Notes, Comments, and Explanations

Safety Data Sheet

Material Name: SAFETY-KLEEN PREMIUM SOLVENT (VIRGIN AND RECYCLED) **SDS ID: 82658**

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

SAFETY-KLEEN PREMIUM SOLVENT (VIRGIN AND RECYCLED)

Synonyms

Safety-Kleen Premium Gold Solvent; Safety-Kleen Continued Use Product Solvent (CUP); High Flash Degreasing Solvent; Parts Washer Solvent; Petroleum Distillates; Petroleum Naphtha; Naphtha, Solvent; Mineral Spirits

Product Use

Cleaning and degreasing metal parts. If this product is used in combination with other products, refer to the Safety Data Sheets for those products.

Restrictions on Use

None known.

MANUFACTURER

Safety-Kleen Systems, Inc.
2600 North Central Expressway
Suite 200
Richardson, TX 75080
www.safety-kleen.com
Phone: 1-800-669-5740
Emergency Phone #: 1-800-468-1760

IN CANADA: SUPPLIER

Safety-Kleen Canada, Inc.
25 Regan Road
Brampton, Ontario, Canada L1A 1B2

Phone: 1-800-669-5740
Emergency # 1-800-468-1760

Issue Date

September 30, 2016

Supersedes Issue Date

June 28, 2016

Original Issue Date

January 26, 1995

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids - Category 4
Aspiration Hazard - Category 1
Specific Target Organ Toxicity - Single Exposure - Category 3 (central nervous system)

GHS Label Elements

Symbol(s)

Signal Word

Danger

Hazard Statement(s)

Combustible liquid.
May be fatal if swallowed and enters airways.
May cause drowsiness or dizziness.

Precautionary Statement(s)

Prevention

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection/face protection. Avoid breathing vapor or mist.

Response

In case of fire: Use Class B/C or Class A/B/C fire extinguisher, carbon dioxide, regular foam, dry chemical, water spray, or water fog for extinction. IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

None known.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
64742-47-8	Petroleum distillates, hydrotreated light	100

Section 4 - FIRST AID MEASURES

Inhalation

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and wash it before reuse. Get medical attention if irritation develops or persists.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Ingestion

Aspiration hazard. IF SWALLOWED: Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms/Effects

Acute

May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.

Delayed

May cause damage to central nervous system.

Indication of any immediate medical attention and special treatment needed

IF exposed: Immediately call a POISON CENTER or doctor/physician. Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Media to use includes Class B/C or Class A/B/C fire extinguisher, carbon dioxide, regular dry chemical, foam, water spray, and water fog.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Special Hazards Arising from the Chemical

Combustible liquid and vapor. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Do not allow run-off from fire-fighting to enter drains or water courses. Closed containers may rupture violently when heated. Empty containers may retain product residue including flammable/explosive vapors. Take precautionary measures against static discharge: May cause fire or explosion.

Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide and other organic compounds.

Advice for firefighters

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures

Keep away from ignition sources - No smoking. Keep unnecessary people away, isolate hazard area and deny entry. Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Stay away from the ends of tanks. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile). Stay upwind and keep out of low areas. Dike for later disposal.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Remove all sources of ignition. Do not touch or walk through spilled material. Stop leak if safe to do so. Wear personal protective clothing and equipment. Appropriate engineering controls: Keep unnecessary people away, isolate hazard area and deny entry. Ventilate the area. Avoid breathing vapor or mist. Use foam on spills to minimize vapors. Keep out of water supplies and sewers. Absorb with earth, sand or other non-combustible material and transfer to container. Use non-sparking tools. Large spills: Reduce vapors with water spray. Dike for later disposal.

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Keep away from heat, sparks and flame. Use personal protective equipment as required. When transferring product, trucks and tank cars should be grounded and bonded. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Keep away from heat and ignition sources. Do not cut, puncture, or weld on or near this container. Empty containers may contain product residue.

Incompatible Materials

Avoid acids, alkalies, oxidizing agents, reducing agents, halogens.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Petroleum distillates, hydrotreated light	**64742-47-8**
ACGIH:	100 ppm TWA (related to Stoddard solvent)
NIOSH:	350 mg/m^3 TWA (related to Stoddard solvent)
	1800 mg/m^3 Ceiling (15 minutes)
OSHA (US):	500 ppm TWA ; 2900 mg/m^3 TWA (Related to Stoddard solvent)
	100 ppm TWA (Related to Stoddard solvent); 525 mg/m^3 TWA (OSHA (Vacated))

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear safety glasses. Additional protection like goggles, face shields, or respriators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

Respiratory Protection

Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

Glove Recommendations

Wear appropriate chemical resistant gloves. In case of skin contact: neoprene, nitrile, as well as similar materials in protection gloves; do not use natural rubber.

Protective Materials

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses, gloves, and lab coat or apron.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid	**Physical State**	Liquid
Odor	Mild ,hydrocarbon odor	**Color**	Colorless to pale yellow
Odor Threshold	30 ppm (based on Stoddard Solvent)	**pH**	Not applicable
Melting Point	-45 F (-43 C)	**Boiling Point**	350 F (177 C)
Boiling Point Range	Not available	**Freezing point**	Not available
Evaporation Rate	<0.1 (butyl acetate = 1)	**Flammability (solid, gas)**	Not available
Autoignition Temperature	480 F (249 C)(minimum)	**Flash Point**	148 F (64 C)
Lower Explosive Limit	0.7 VOL%	**Decomposition temperature**	Not available
Upper Explosive Limit	5 VOL%	**Vapor Pressure**	0.2 mm Hg (at 68 F)
Vapor Density (air=1)	5 (air = 1) (approximately)	**Specific Gravity (water=1)**	0.77 - 0.82 (at 60 F)
Water Solubility	Insoluble	**Partition coefficient: n-octanol/water**	Not available
Viscosity	Not available	**Solubility (Other)**	Not available
Density	6.4 - 6.7 lb/US gal	**VOC**	100 WT%; 6.4 to 6.7 LB/US gal; 770 to 800 g/l; As per 40 CFR Part 51.100(s); VOC Vapor Pressure: <1.0 mmHg @ 20°C; Product may or may not be considered photochemically reactive (100% by weight); Consult your state or local air district regulations for location specific information.
Molecular Weight	Not available		

Other Information

No additional information is available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize under normal temperature and pressure conditions.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

Avoid acids, alkalies, oxidizing agents, reducing agents, halogens.

Hazardous decomposition products

Not applicable under normal conditions of use and storage. Reference to other sections: Section 5.

Thermal decomposition products

Burning may produce carbon monoxide and other organic compounds.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause respiratory irritation, nausea, loss of appetite, headache, drowsiness, dizziness, disorientation, tremors, lung damage, convulsions, coma.

Skin Contact

May cause skin irritation.

Eye Contact

No information on significant adverse effects.

Ingestion

May cause drowsiness or dizziness, headache, loss of coordination, aspiration hazard.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Petroleum distillates, hydrotreated light (64742-47-8)

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Inhalation LC50 Rat >5.2 mg/L 4 h

Immediate Effects

May cause central nervous system depression. Aspiration may result in lung damage, respiratory tract irritation, May cause skin irritation.

Delayed Effects

May cause damage to central nervous system.

Irritation/Corrosivity Data

May cause respiratory tract irritation and skin irritation.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Germ Cell Mutagenicity

No information available for the product.

Tumorigenic Data

No data available

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

May cause central nervous system depression.

Specific Target Organ Toxicity - Repeated Exposure

May cause damage to central nervous system.

Aspiration hazard

May be fatal if swallowed and enters airways. May cause lung damage.

Medical Conditions Aggravated by Exposure

Individuals with pre-existing respiratory tract (nose, throat, and lungs), central nervous system, kidneys, and eye and/or skin disorders may have increased susceptibility to the effects of exposure.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

According to the California Code of Regulations, a toxicity to aquatic life, specifically fish, is determined using an acute 96 hour bioassay. A material is non-hazardous if the LC50 is >500 mg/L. This product passed the bioassay and is considered non-hazardous.

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

This material is believed not to bioaccumulate.

Mobility

Expected to have high mobility in soil.

Other Toxicity

No additional information is available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable federal, state and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal. This product, if discarded, is not expected to be a characteristic or listed hazardous waste. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Non-Bulk Packages (less than or equal to 119 gallons): Not regulated. Shipping Name: Cleaning compounds (Petroleum naphtha) (Not US DOT regulated)

Bulk Packages

Shipping Name: COMBUSTIBLE LIQUID, N.O.S., (Petroleum naphtha)
Hazard Class: 3 **UN/NA #:** NA1993 **Packing Group:** III **Required Label(s):** 3

IATA Information:

UN#: Not regulated as a dangerous good

TDG Information:

UN#: Not regulated as a dangerous good

Additional information

Emergency Response Guide Number: 128: Reference: North American Emergency Response Guide Book.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: yes **Chronic Health:** yes **Fire:** yes **Pressure:** no **Reactivity:** no

U.S. State Regulations

None of this product's components are listed on the state lists from MA, MN, NJ or PA

WARNING! This product can expose you to chemicals including benzene, dichlorobenzene, ethylbenzene, and naphthalene which are known to the State of California to cause cancer and benzene and toluene which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.gov.

Canada Regulations

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.

Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

WHMIS Classification

B3; D2B

Component Analysis - Inventory

Petroleum distillates, hydrotreated light (64742-47-8)

US	CA
Yes	DSL

U.S. Inventory (TSCA)

TSCA: All the components of this substance are listed on or are exempt from the inventory.

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 1 Fire: 2 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

Revision to meet Canadian WHMIS 2015. Clarification of language in Section 8, Protective Equipment.

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EPA - Environmental Protection Agency; F - Fahrenheit; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; OSHA - Occupational Safety and

Health Administration; PEL- Permissible Exposure Limit; RCRA - Resource Conservation and Recovery Act; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.