

Commonwealth of Kentucky
Division for Air Quality
STATEMENT OF BASIS / SUMMARY

Title V, Operating
Permit: V-26-020

Tennessee Gas Pipeline Company, LLC – Station 96
1380 Hobson Road
Campbellsville, KY 42718

April 20, 2026
Dylan Buckingham, Reviewer

SOURCE ID:	21-217-0033
AGENCY INTEREST:	44056
ACTIVITY:	APE20260001

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SECTION 1 – SOURCE DESCRIPTION

SIC Code and description: 4922, Natural Gas Transmission

Single Source Det. ☐ Yes ☒ No If Yes, Affiliated Source AI:

Source-wide Limit ☐ Yes ☒ No If Yes, See Section 4, Table A

28 Source Category ☐ Yes ☒ No If Yes, Category:

County: Taylor

Nonattainment Area ☒ N/A ☐ PM₁₀ ☐ PM_{2.5} ☐ CO ☐ NO_x ☐ SO₂ ☐ Ozone ☐ Lead

If yes, list Classification:

PTE* greater than 100 tpy for any criteria air pollutant ☒ Yes ☐ No

If yes, for what pollutant(s)?

☐ PM₁₀ ☐ PM_{2.5} ☒ CO ☒ NO_x ☐ SO₂ ☒ VOC

PTE* greater than 250 tpy for any criteria air pollutant ☒ Yes ☐ No

If yes, for what pollutant(s)?

☐ PM₁₀ ☐ PM_{2.5} ☒ CO ☒ NO_x ☐ SO₂ ☐ VOC

PTE* greater than 10 tpy for any single hazardous air pollutant (HAP) ☒ Yes ☐ No

If yes, list which pollutant(s): Formaldehyde

PTE* greater than 25 tpy for combined HAP ☒ Yes ☐ No

*PTE does not include self-imposed emission limitations.

Description of Facility:

The station receives natural gas via pipeline from upstream sources, compresses it using reciprocating internal combustion engines (RICE), and then transmits it via pipeline to downstream compressor stations.

SECTION 2 – CURRENT APPLICATION AND EMISSION SUMMARY FORM

Permit Number: V-26-020

Activities: APE20260001

Received: March 10, 2026

Application Complete Date(s): April 16, 2026

Permit Action: ☐ Initial ☒ Renewal ☐ Significant Rev ☐ Minor Rev ☐ Administrative

Construction/Modification Requested? ☐ Yes ☒ No NSR Applicable? ☐ Yes ☒ No

Previous 502(b)(10) or Off-Permit Changes incorporated with this permit action ☐ Yes ☒ No

Description of Action:

- Renewal of Permit

V-26-020 Emission Summary				
Pollutant	2024 Actual (tpy)	Previous PTE V-20-024 (tpy)	Change (tpy)	Revised PTE V-26-020 (tpy)
CO	102.63	386.67	7.14	393.81
NO _x	1227.1	4871.5	8.49	4879.99
PT	14.03	51.98	0.64	52.62
PM ₁₀	14.03	51.98	0.64	52.62
PM _{2.5}	14.03	51.98	0.64	52.62
SO ₂	0.20	0.66	.05	0.71
VOC	38.82	140.75	-5.34	135.41
Lead	0.001	5.0 x 10 ⁻³	0	5.0 x 10 ⁻³
Greenhouse Gases (GHGs)				
Carbon Dioxide	37973.13	131416	10145.1	141561.1
Methane	2.32	4.08	0.19	4.27
Nitrous Oxide	0.07	0.25	0.02	0.27
CO ₂ Equivalent (CO ₂ e)	38056.64	131592	10159.33	141751.33
Hazardous Air Pollutants (HAPs)				
Acetaldehyde	2.2	8.29	0	8.29
Acrolein	2.2	8.3	0	8.3
Benzene	0.55	2.1	0	2.1
Formaldehyde	15.69	59.02	0	59.02
Hexane	0.62	0.99	0.15	1.14
Methanol	0.71	2.65	0	2.65
Toluene	0.27	1.03	0	1.03
Combined HAPs:	22.3	83.33	0.17	83.50

SECTION 3 – EMISSIONS, LIMITATIONS AND BASIS

Emission Unit E01-E19, 2 Stroke Lean Burn (2SLB) Reciprocating Compression Engines (19)

Initial Construction Date: See Process Description

Process Description: None of the listed emission units have control devices.

E01 [96-B-04], E02 [96-B-05]	<u>Description:</u> Model: Cooper-Bessemer GMV-10 Primary Fuel: Natural Gas Power Output: 1,100 hp each Max Operating Rate: 12.175 mmBtu/hr each Construction Date: 1948
E03 [96-B-06], E04 [96-B-07], and E05 [96-B-08]	<u>Description:</u> Model: Cooper-Bessemer GMV-10 Primary Fuel: Natural Gas Power Output: 1,100 hp each Max Operating Rate: 12.175 mmBtu/hr each Construction Date: 1949
E06 [96-B-09], E07 [96-B-10]	<u>Description:</u> Model: Cooper-Bessemer GMV-10TF Primary Fuel: Natural Gas Power Output: 1,350 hp each Max Operating Rate: 12.99 mmBtu/hr each Construction Date: 1950
E08 [96-C-01], E09 [96-C-02], E10 [96-C-03], E11 [96-C-04], E12 [96-C-05], and E13 [96-C-06]	<u>Description:</u> Model: Cooper-Bessemer GMV-10TF Primary Fuel: Natural Gas Power Output: 1,350 hp each Max Operating Rate: 12.99 mmBtu/hr each Construction Date: 1952
E14 [96-C-07], and E15 [96-C-08]	<u>Description:</u> Model: Cooper-Bessemer GMV-10 Primary Fuel: Natural Gas Power Output: 1,350 hp each Max Operating Rate: 13.14 mmBtu/hr each Construction Date: 1956
E16 [96-C-09], E17 [96-C-10], E18 [96-C-11], and E19 [96-C-12]	<u>Description:</u> Model: Cooper-Bessemer GMV-10 Primary Fuel: Natural Gas Power Output: 1,350 hp each Max Operating Rate: 13.14 mmBtu/hr each Construction Date: 1957

Emission Unit E01-E19, 2 Stroke Lean Burn (2SLB) Reciprocating Compression Engines (19)

Applicable Regulation:

401 KAR 63:002, Section 2(4)(eeee), 40 C.F.R. 63.6580 through 63.6675, Tables 1a through 8, and Appendix A (**Subpart ZZZZ**), *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*.

Comments:

NO_x and CO emissions are calculated using emission factors from similar units in the Tennessee gas production database. Greenhouse gases are calculated using 40 CFR 98, Subpart C Table 1 and 2 for natural gas. All other pollutants are calculated using AP-42, Table 3.2-1 for Two stroke lean burn engines.

Existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 hp located at a major source of HAP emissions do not have to meet the requirements of 40 CFR 63, Subpart ZZZZ or 40 CFR 63, Subpart A, including initial notification requirements. The 1,100 hp and 1,350 hp stationary RICE are 2SLB, therefore, there are no requirements pursuant to 40 CFR 63, Subpart ZZZZ. [40 CFR 63.6590(b)(3) & 40 CFR 63.6590(b)(3)(i)]

Emission Unit E20 4SLB Reciprocating Emergency Engine (96-C-Aux-01)

Initial Construction Date: 2000

Process Description:

Model: Caterpillar G3516TA
Primary Fuel: Natural Gas
Power Output: 1,025 hp
Max Operating Rate: 8.1 mmBtu/hr
Controls: None

Applicable Regulation:

401 KAR 63:002, Section 2(4)(eeee), 40 C.F.R. 63.6580 through 63.6675, Tables 1a through 8, and Appendix A (**Subpart ZZZZ**), *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*.

Comments:

NO_x and CO emissions are calculated based on manufacturer's guarantees. Greenhouse gases are calculated using 40 CFR 98, Subpart C Table 1 and 2 for natural gas. All other pollutants are calculated using AP-42, Table 3.2-2 for four stroke lean burn engines.

Existing spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions do not have to meet the requirements of 40 CFR 63, Subpart ZZZZ and 40 CFR 63, Subpart A. Therefore, the permittee shall comply with 40 CFR 63, Subpart ZZZZ for the 1,025 HP emergency engine by meeting the requirements to be considered an emergency engine as defined in 40 CFR 63.6675. [40 CFR 63.6590(b)(3)(ii)]

Emission Unit E21 and E22 Jacket Water Heaters				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
PM	E21: 0.56 lb/mmBtu	401 KAR 59:015, Section 4(1)(a)	7.6 lb/mmBtu, AP-42 Chapter 1.4.	Assumed based upon natural gas combustion
	E22: 0.54 lb/mmBtu	401 KAR 59:015, Section 4(1)(c)		
	20% opacity	401 KAR 59:015, Section 4(2)	N/A	
SO ₂	E21: 3.0 lb/mmBtu	401 KAR 59:015, Section 5(1)(a)1.	0.6 lb/mmBtu, AP-42 Chapter 1.4.	
	E22: 2.78 lb/mmBtu	401 KAR 59:015, Section 5(1)(c)2.b.		
Initial Construction Date: E21: 1984, E22: 2000				
Process Description: E21 [96-HEATER-01] Description: Model: NATCO (Jacket Water Heater) Primary Fuel: Natural Gas Max Operating Rate: 4.5 mmBtu/hr Controls: None				
E22 [96-HEATER-02] Description: Model: NATCO (Jacket Water Heater) Primary Fuel: Natural Gas Max Operating Rate: 7.5 mmBtu/hr Controls: None				
Applicable Regulation: 401 KAR 59:015, <i>New Indirect Heat Exchangers.</i>				
401 KAR 63:002, Section 2(4)(iii), 40 C.F.R. 63.7480 through 63.7575, Tables 1 through 13 (Subpart DDDDD), <i>National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.</i>				
Comments: Greenhouse gas emissions are calculated using 40 CFR 98, Subpart C Tables C-1 and C-2. All other pollutant emissions are calculated using AP-42 Tables 1.4-1 through 1.4-4 for natural gas combustion.				
The one-time energy assessment required by Table 3, Item 4 of 40 CFR 63, Subpart DDDDD was conducted by TRC Environmental Corporation on November 11, 2014.				

Emission Unit 23 [96-HEATER-20] Waste Water Evaporator

Initial Construction Date: 2002

Process Description:

Model: SAMSCO 600-316 (Waste Water Evaporator)
Primary Fuel: Natural Gas
Max Operating Rate: 0.395 mmBtu/hr
Controls: None

Applicable Regulation:

401 KAR 63:002, Section 2(4)(iii), 40 C.F.R. 63.7480 through 63.7575, Tables 1 through 13 (**Subpart DDDDD**), *National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters*.

Comments:

Greenhouse gas emissions are calculated using 40 CFR 98, Subpart C Tables C-1 and C-2. All other pollutant emissions are calculated using AP-42 Tables 1.4-1 through 1.4-4 for natural gas combustion.

The one-time energy assessment required by Table 3, Item 4 of 40 CFR 63, Subpart DDDDD was conducted by TRC Environmental Corporation on November 11, 2014.

SECTION 3 – EMISSIONS, LIMITATIONS AND BASIS (CONTINUED)

Testing Requirements\Results

N/A

SECTION 4 – SOURCE INFORMATION AND REQUIREMENTS

Table A - Group Requirements:

N/A

Table B - Summary of Applicable Regulations:

Applicable Regulations	Emission Unit
401 KAR 59:015, <i>New Indirect Heat Exchangers</i>	E21, E22
401 KAR 63:002 Section 2(4)(eeee), 40 C.F.R. 63.6580 through 63.6675, Tables 1a through 8, and Appendix A (Subpart ZZZZ) <i>National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.</i>	E1-E20
401 KAR 63:002, Section 2(4)(iiii), 40 C.F.R. 63.7480 through 63.7575, Tables 1 through 13 (Subpart DDDDD), <i>National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.</i>	E21-E23

Table C - Summary of Precluded Regulations:

N/A

Table D - Summary of Non Applicable Regulations:

N/A

Air Toxic Analysis

401 KAR 63:020, *Potentially Hazardous Matter or Toxic Substances*

The Division for Air Quality (Division) has performed SCREEN View on September 22, 2020 of potentially hazardous matter or toxic substances (Benzene and Hexane) that may be emitted by the facility based upon the process rates, material formulations, stack heights and other pertinent information provided by the applicant. Based upon this information, the Division has determined that the conditions outlined in this permit will assure compliance with the requirements of 401 KAR 63:020.

Single Source Determination

N/A

SECTION 5 – COMPLIANCE ASSURANCE MONITORING

40 CFR 64, *Compliance assurance monitoring* (CAM) applies to a pollutant-specific emissions unit at a major source that is required to obtain a part 70 or 71 permit if the unit satisfies all of the following criteria:

- (1) The unit is subject to an emission limitation or standard for the applicable regulated air pollutant (or a surrogate thereof), other than an emission limitation or standard that is exempt under 40 CFR 64.2(b)(1);
- (2) The unit uses a control device to achieve compliance with any such emission limitation or standard; and
- (3) The unit has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than 100 percent of the amount, in tons per year, required for a source to be classified as a major source.

Emission Unit	Criteria 1 (Y/N)	Criteria 2 (Y/N)	Criteria 3 (Y/N)	Does CAM apply? If Y for criteria 1, 2, AND 3, then Yes, Otherwise, No.
E01 – E02	N	N	Y	No
E03 – E05	N	N	Y	No
E06 – E07	N	N	Y	No
E08 – E13	N	N	Y	No
E14 – E15	N	N	Y	No
E16 – E19	N	N	Y	No

* If Yes, CAM applies for any of the emission units above, then see further clarification for each listed emission unit in **Section 3**.

SECTION 6 – PERMITTING HISTORY

Permit	Permit Type	Activity #	Complete Date	Issuance Date	Summary of Action	PSD/Syn Minor
G-04-001 R1	Renewal	APE20040001	6/26/2006	5/27/2005	NA	NA
G-09-002	Renewal	APE20090001	2/11/2010	10/4/2010	Renewal Permit	No
G-09-002 R1	Admin Amend	APE20120001	6/14/2012	6/25/2012	Admin Amendment	No
V-15-049	Renewal	APE20150001	9/22/2015	2/4/2016	Renewal Permit	No
V-20-024	Renewal	APE20200001	10/06/2020	6/3/2021	Permit Renewal	No

SECTION 7 – PERMIT APPLICATION HISTORY
N/A

APPENDIX A – ABBREVIATIONS AND ACRONYMS

AAQS	– Ambient Air Quality Standards
BACT	– Best Available Control Technology
Btu	– British thermal unit
CAM	– Compliance Assurance Monitoring
CO	– Carbon Monoxide
Division	– Kentucky Division for Air Quality
ESP	– Electrostatic Precipitator
GHG	– Greenhouse Gas
HAP	– Hazardous Air Pollutant
HF	– Hydrogen Fluoride (Gaseous)
MSDS	– Material Safety Data Sheets
mmHg	– Millimeter of mercury column height
NAAQS	– National Ambient Air Quality Standards
NESHAP	– National Emissions Standards for Hazardous Air Pollutants
NO _x	– Nitrogen Oxides
NSR	– New Source Review
PM	– Particulate Matter
PM ₁₀	– Particulate Matter equal to or smaller than 10 micrometers
PM _{2.5}	– Particulate Matter equal to or smaller than 2.5 micrometers
PSD	– Prevention of Significant Deterioration
PTE	– Potential to Emit
SO ₂	– Sulfur Dioxide
TF	– Total Fluoride (Particulate & Gaseous)
VOC	– Volatile Organic Compounds

APPENDIX B – INDIRECT HEAT EXCHANGER EMISSIONS LIMITATIONS

EU	Fuel	Capacity (MMBtu/hr)	Construction Date	Notes/ Removal Date	Basis for PM Limit	Total Heat Input Capacity for PM Limit (MMBtu/hr)	Basis for SO₂ Limit	Total Heat Input Capacity for SO₂ Limit (MMBtu/hr)
E21	Natural Gas	4.5	1984	N/A	59:015, Section 4(1)(a)	4.5	59:015, Section 5(1)(a)1	4.5
E22	Natural Gas	7.5	2000	N/A	59:015,	12	59:015, Section 5(1)(c)2.b.	12