STATEMENT OF BASIS

For the issuance of Draft Air Permit # 1102-AOP-R5 AFIN: 30-00081

1. PERMITTING AUTHORITY:

Arkansas Department of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

2. APPLICANT:

Enable Gas Transmission, LLC (Malvern Compressor Station) Ridge Road, 6 Mile South of Malvern Malvern, Arkansas 72104

3. PERMIT WRITER:

Jeremy Antipolo

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Pipeline Transportation of Natural Gas

NAICS Code: 486210

5. ALL SUBMITTALS:

| Date of Application | Type of Application | Short Description of Any Changes |
|---------------------|------------------------------|--|
| | (New, Renewal, Modification, | That Would Be Considered New or |
| | Deminimis/Minor Mod, or | Modified Emissions |
| | Administrative Amendment) | |
| 9/26/2016 | Administrative Amendment | Addition of a dry line heater (0.14 |
| | | MMBtu/hr) to the Insignificant Activity List |

6. REVIEWER'S NOTES:

Enable Gas Transmission, LLC (EGT) currently operates a natural gas compressor station located approximately six (6) miles south of Malvern, Arkansas. This permit action adds a dry line heater (0.14 MMBtu/hr) to the facility's Insignificant Activities List. The total permitted emission rate limits do not change with this action.

7. COMPLIANCE STATUS:

The following summarizes the current compliance of the facility including active/pending enforcement actions and recent compliance activities and issues.

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There are currently no enforcement actions for this facility.

8. PSD APPLICABILITY:

- a) Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? N
- b) Is the facility categorized as a major source for PSD?
- Single pollutant \geq 100 tpy and on the list of 28 or single pollutant \geq 250 tpy and not on list

If yes, explain why this permit modification is not PSD.

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

| Source | Pollutant | Regulation (NSPS, NESHAP or PSD) |
|----------------------|------------------------|---|
| SN-01,02,03,04,05,12 | HAPs (CO as surrogate) | 40 CFR 63, Subpart ZZZZ: "National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines" |

10. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

11. AMBIENT AIR EVALUATIONS:

- a) Reserved.
- b) Non-Criteria Pollutants:

1st Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Department has deemed the PAER to be the product, in lb/hr, of 0.11 and the Threshold Limit Value (mg/m³), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

| Pollutant | TLV (mg/m³) | PAER (lb/hr) = 0.11 × TLV | Proposed lb/hr | Pass? |
|--------------|-------------|---------------------------|----------------|-------|
| Formaldehyde | 1.5 | 0.165 | 3.013688713 | NO |
| Acrolein | 0.2 | 0.03 | 0.673693122 | NO |

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2nd Tier Screening (PAIL)

AERMOD air dispersion modeling was performed on the estimated hourly emissions from the following sources, in order to predict ambient concentrations beyond the property boundary. The Presumptively Acceptable Impact Level (PAIL) for each compound has been deemed by the Department to be one one-hundredth of the Threshold Limit Value as listed by the ACGIH.

| Pollutant | PAIL $(\mu g/m^3) = 1/100$ of Threshold Limit Value | Modeled Concentration (μg/m³) | Pass? |
|--------------|--|-------------------------------|-------|
| Formaldehyde | 15.00 | 3.34* | YES |
| Acrolein | 2.29 | 0.504* | YES |

^{*}Previous modeling. No changes to the non-emergency engines.

c) H₂S Modeling:

A.C.A. §8-3-103 requires hydrogen sulfide emissions to meet specific ambient standards. Many sources are exempt from this regulation, refer to the Arkansas Code for details.

| Is the facility exempt from the H ₂ S Standards | Y/N |
|--|-----|
| If exempt, explain: | |

| Pollutant | Threshold value | Modeled Concentration (ppb) | Pass? |
|------------------|--|-----------------------------|-------|
| | 20 parts per million (5-minute average*) | | |
| | 80 parts per billion | | |
| H ₂ S | (8-hour average) | | |
| | residential area 100 parts per billion | | |
| | (8-hour average) | | |
| | nonresidential area | | |

^{*}To determine the 5-minute average use the following equation

$$Cp = Cm (t_m/t_p)^{0.2}$$
 where

Cp = 5-minute average concentration

Cm = 1-hour average concentration

 $t_m = 60 \text{ minutes}$

 $t_p = 5 \text{ minutes}$

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12. CALCULATIONS:

| SN | Emission Factor Source (AP-42, testing, etc.) | Emission Factor (lb/ton, lb/hr, etc.) | Control Equipment | Control Equipment Efficiency | Comments |
|-----------|--|--|----------------------|------------------------------------|---|
| 01- 04 | NO _x , CO, VOC— Manufacturer data SO ₂ , PM—AP-42 HAPs—From GRI—all in g/hp-hr | NO _x —1.7 g/hp-hr CO—1.5 g/hp-hr VOC—0.225 g/hp-hr SO ₂ —5.88E-04 lb/MM Btu PM ₁₀ —0.04831 lb/MM Btu Acetaldehyde— 0.00727 Acrolein—0.02052 Benzene—0.00100 Formaldehyde— 0.09072 Methanol—0.00723 | None | N/A | SN-01 6,600 BTU/HP-hr 02 thru 04 6,800 BTU/HP-hr |
| 05 | NO _x , CO, VOC— Manufacturer data SO ₂ , PM—AP-42 HAPs—From GRI—all in g/hp-hr | NO _x —15.0 g/hp-hr CO—0.83 g/hp-hr VOC—0.83 g/hp-hr SO ₂ —5.88E-04 lb/MM Btu PM ₁₀ —0.0194 lb/MM Btu Acetaldehyde— 0.00921 Acrolein—0.00868 Benzene—0.00521 Formaldehyde— 0.06766 Methanol—0.01010 | None | N/A | 8000 BTU/HP-hr |
| 12 | NO _x , CO, VOC, PM— Manufacturer data SO ₂ —AP-42 HAPs—From GRI—all in g/hp-hr | NO _x —7.07 g/hp-hr CO—0.6 g/hp-hr VOC—0.1 g/hp-hr SO ₂ —0.290 lb/MM Btu PM ₁₀ —0.0275 g/hp- hr Acetaldehyde— 0.00077 Acrolein—0.00009 Benzene—0.00093 | None | N/A | 7,000 BTU/HP-hr |

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| SN | Emission Factor Source (AP-42, testing, etc.) | Emission Factor (lb/ton, lb/hr, etc.) | Control Equipment | Control Equipment Efficiency | Comments |
|----|---|---------------------------------------|----------------------|------------------------------------|----------|
| | | Formaldehyde— 0.00118 | | | |

13. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

| SN | Pollutants | Test Method | Test Interval | Justification |
|-------|---------------------|-------------|--|---------------------------------|
| 01-04 | CO, NO _x | 7E, 10 | ½ of each type of engine every 5 years | Compliance with Emission limits |

14. MONITORING OR CEMS:

The permittee must monitor the following parameters with CEMS or other monitoring equipment (temperature, pressure differential, etc.)

| SN | Parameter or Pollutant to be Monitored | Method (CEM, Pressure Gauge, etc.) | Frequency | Report (Y/N) |
|----|--|------------------------------------|-----------|--------------|
| | | None | | |

15. RECORDKEEPING REQUIREMENTS:

The following are items (such as throughput, fuel usage, VOC content, etc.) that must be tracked and recorded.

| SN | Recorded Item | Permit Limit | Frequency | Report (Y/N) |
|--------|---|-------------------------------------|--------------------|--------------|
| | Hours of Operation | 500 hrs per calendar | Monthly | Y |
| | Hours of Operation | 500 hours per calendar | Monthly | Y |
| 05, 12 | Oil & Filter Changes/hoses and belt inspection | Every 500 hrs operation or annually | As Conducted | N |
| | Air Cleaner Inspection/Spark Plug Inspection | Every 1000 hrs or annually | As Conducted | Y |
| | Malfunction | N/A | Upon Occurrence | Y |

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| SN | Recorded Item | Permit Limit | Frequency | Report (Y/N) |
|----|--|---|-----------|--------------|
| | Hours for maintenance checks and readiness testing | 100 per rolling twelve month period | Monthly | Y |

16. OPACITY:

| SN | Opacity | Justification for limit | Compliance Mechanism |
|-----------|---------|-------------------------|------------------------------------|
| 01-04, 05 | 5% | 18.501 | Burning Natural Gas and Inspection |
| 12 | 20% | 19.503 | Observations |

17. DELETED CONDITIONS:

| Former SC | Justification for removal |
|-----------|---------------------------|
| | None |

18. GROUP A INSIGNIFICANT ACTIVITIES:

| Source Name | Group A | Emissions (tpy) | | | | | | |
|---|----------|-------------------------|--------|---------|------|-------------|---------|---------|
| | Category | PM/PM ₁₀ | 92 | VOC | CO | NO_x^{-1} | HAPs | |
| | | PIVI/PIVI ₁₀ | SO_2 | VOC | CO | | Single | Total |
| Boiler 1—3.25 MM Btu/hr boiler | A-1 | 0.11 | 0.01 | 0.08 | 1.14 | 1.356 | 0.005 | 0.005 |
| Boiler 2—3.25 MM Btu/hr boiler | A-1 | 0.11 | 0.01 | 0.08 | 1.14 | 1.356 | 0.005 | 0.005 |
| Heater 1—0.15 MM Btu/hr heater | A-1 | 0.01 | 0.01 | 0.01 | 0.06 | 0.063 | 0.001 | 0.001 |
| Dry Line Heater—0.14 MM Btu/hr heater | A-1 | 0.01 | 0.01 | 0.01 | 0.05 | 0.059 | 0.001 | 0.001 |
| A-1 Totals | | 0.24 | 0.04 | 0.18 | 2.39 | 2.834 | 0.012 | 0.012 |
| TK-WO1—8820 Gal Waste Oil Storage Tank | A-3 | | | 0.0076 | | | 0.0076 | 0.0076 |
| TK-LO1—7520 Gal Lube Oil Storage Tank | A-3 | | | 0.0066 | | | 0.0066 | 0.0066 |
| TK-DIES—1000 Gal Diesel Storage Tank | A-3 | | | 0.00052 | | | 0.00052 | 0.00052 |
| TK-OS1—1000 Gal Oil Settling Tank | A-3 | | | 0.0014 | | | 0.0014 | 0.0014 |
| TK-AF3—2068 Gallon Antifreeze Tank | A-3 | | | 0.00001 | | | 0.00001 | 0.00001 |

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| TK-WW1—8820 Gal Wastewater Tank | A-3 | | 0.005 | | 0.005 | 0.005 |
|------------------------------------|------|--|---------|--|---------|---------|
| TK-AF1—7520 Gal Antifreeze Tank | A-3 | | 0.00005 | | 0.00005 | 0.00005 |
| A-3 Totals | | | 0.023 | | 0.023 | 0.023 |
| Uncontrolled Piping Emissions | A-13 | | 0.67 | | | |
| A-13 Totals | | | 0.67 | | | |

¹NO_x emissions are below 250 tpy when combined with sources SN-1, SN-2, SN-3, SN-4, SN-5 and SN-12. Summing actual emissions, prior to rounding up, result with a total NO_x emission of 249.99 tpy.

19. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

List all active permits voided/superseded/subsumed by the issuance of this permit.

| Permit # | |
|-------------|--|
| 1102-AOP-R4 | |



Facility Name: Permit Number: AFIN:

\$/ton factor 23.93 Annual Chargeable Emissions (tpy) 306.59
Permit Type AA Permit Fee \$

Minor Modification Fee \$ 500

Minimum Modification Fee \$ 1000

Renewal with Minor Modification \$ 500

Check if Facility Holds an Active Minor Source or Minor

Source General Permit

If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$ 0

Total Permit Fee Chargeable Emissions (tpy) 0

Initial Title V Permit Fee Chargeable Emissions (tpy)

HAPs not included in VOC or PM:

Chlorine, Hydrazine, HCl, HF, Methyl Chloroform, Methylene Chloride, Phosphine, Tetrachloroethylene, Titanium Tetrachloride

Air Contaminants:

All air contaminants are chargeable unless they are included in other totals (e.g., H2SO4 in condensible PM, H2S in TRS, etc.)

| Pollutant (tpy) | Check if Chargeable Emission | Old Permit | New Permit | Change in Emissions | Permit Fee Chargeable Emissions | Annual Chargeable Emissions |
|-------------------|------------------------------------|------------|------------|---------------------|---------------------------------------|-----------------------------------|
| PM | | 21.3 | 21.3 | 0 | | |
| PM_{10} | | 21.3 | 21.3 | 0 | 0 | 21.3 |
| PM _{2.5} | | 0 | 0 | 0 | | |
| SO_2 | | 0.9 | 0.9 | 0 | 0 | 0.9 |
| VOC | | 37.2 | 37.2 | 0 | 0 | 37.2 |
| со | | 214.1 | 214.1 | 0 | | |
| NO_X | | 247.19 | 247.19 | 0 | 0 | 247.19 |
| Formaldehyde | | 12.98 | 12.98 | 0 | | |

| Pollutant (tpy) | Check if Chargeable Emission | Old Permit | New Permit | | Permit Fee Chargeable Emissions | Annual Chargeable Emissions |
|-----------------|------------------------------------|------------|------------|---|---------------------------------------|-----------------------------------|
| Total Other HAP | | 5.18 | 5.18 | 0 | | |