#### STATEMENT OF BASIS

For the issuance of Draft Air Permit # 1725-AOP-R5 AFIN: 15-00068

#### 1. PERMITTING AUTHORITY:

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

#### 2. APPLICANT:

Enable Gas Transmission, LLC (Round Mountain Compressor Station) 13 Miles NE of the town of Morrilton Morrilton, Arkansas 72110

#### 3. PERMIT WRITER:

Alexander Sudibjo

#### 4. NAICS DESCRIPTION AND CODE:

NAICS Description: Pipeline Transportation of Natural Gas

NAICS Code: 486210

#### 5. ALL SUBMITTALS:

The following is a list of ALL permit applications included in this permit revision.

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)	
8/20/2020	Renewal	Updated calculations for SN-01, SN-06,
		SN-07, and IAs

#### 6. REVIEWER'S NOTES:

This is a Title V renewal for the facility. With this renewal, the facility is updating the basis for calculating emissions from all of its sources. The facility's permitted annual emissions are increasing by 0.2 tpy PM/PM $_{10}$ , 14.5 tpy CO, 1.2 tpy NOx, and 1.89 tpy total HAPs. The facility's permitted annual emissions are decreasing by 26.7 tpy SO $_2$  and 131.7 tpy NOx.

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#### 7. COMPLIANCE STATUS:

As of August 20, 2020, there are no compliance issues with the facility.

#### 8. PSD/GHG APPLICABILITY:

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

If yes for 8(b), explain why this permit modification is not PSD.

#### 9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
SN-01	NO <sub>x</sub> & SO <sub>2</sub>	NSPS Subpart GG
SN-07	$NO_x \& SO_2$	NSPS Subpart KKKK
SN-06	-	NESHAP Subpart ZZZZ

#### 10. UNCONSTRUCTED SOURCES:

Unconstructed	Permit Approval	Extension Requested	Extension Approval	If Greater than 18 Months without Approval, List Reason for Continued
Source	Date	Date	Date	Inclusion in Permit
			N/A	

#### 11. PERMIT SHIELD – TITLE V PERMITS ONLY:

Did the facility request a permit shield in this application? Y (Note - permit shields are not allowed to be added, but existing ones can remain, for minor modification applications or any Regulation 18 requirement.)

If yes, are applicable requirements included and specifically identified in the permit? If not, explain why. Y

For any requested inapplicable regulation in the permit shield, explain the reason why it is not applicable in the table below.

Source	Inapplicable Regulation	Reason
	N/A	

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#### 12. COMPLIANCE ASSURANCE MONITORING (CAM) – TITLE V PERMITS ONLY:

List sources potentially subject to CAM because they use a control device to achieve compliance and have pre-control emissions of at least 100 percent of the major source level. List the pollutant of concern and a brief summary of the CAM plan (temperature monitoring, CEMs, opacity monitoring, etc.) and frequency requirements of § 64.

Source	Pollutant Controlled	Cite Exemption or CAM Plan Monitoring and Frequency	
No source uses a control device to achieve compliance with an emission limit or standard.			

#### 13. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

#### 14. AMBIENT AIR EVALUATIONS:

The following are results for ambient air evaluations or modeling.

#### a) NAAQS

A NAAQS evaluation is not required under the Arkansas State Implementation Plan, National Ambient Air Quality Standards, Infrastructure SIPs and NAAQS SIP per Ark. Code Ann. § 8-4-318, dated March 2017 and the DEQ Air Permit Screening Modeling Instructions.

#### b) Non-Criteria Pollutants:

The non-criteria pollutants listed below were evaluated. Based on Division of Environmental Quality procedures for review of non-criteria pollutants, emissions of all other non-criteria pollutants are below thresholds of concern.

## 1<sup>st</sup> Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Division of Environmental Quality 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/m <sup>3</sup> )	$PAER (lb/hr) = 0.11 \times TLV$	Proposed lb/hr	Pass?
Acrolein	0.229	0.0252	1.013	N
Formaldehyde	0.368	0.0405	0.101	N

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# 2<sup>nd</sup> 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 Division of Environmental Quality 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 $(\mu g/m^3)^*$	Pass?
Acrolein	2.29	0.004	Y
Formaldehyde	15	0.008	Y

<sup>\*</sup> Emissions from SN-06 are not included in the model as it is an emergency generator

### c) H<sub>2</sub>S 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<sub>2</sub>S Standards

If exempt, explain: The facility has demonstrated that the  $H_2S$  in the natural gas does not exceed the four parts per million (4 ppm) for natural gas pipelines and related facilities that do not transmit gas as outlined in A.C.A. §8-3-103.

Y

#### 15. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
	AP-42, 3.1	lb/MMBtu: PM/PM <sub>10</sub> : 0.0066 SO <sub>2:</sub> 0.085 0.007379			43.7 MMBtu/hr SO <sub>2</sub> EF based on
01	Manuf Data	lb/MMBtu VOC: 0.063 CO: 0.11 NOx: 0.596	None	N/A	5g/100 scf.  HAPs EFs are determined by
	Calculated	lb/MMBtu Acetaldehyde: 0.00181 Acrolein: 0.00029 Benzene: 0.00054			applying the AP-42 HAP/VOC ratio to the VOC EF.

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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: 0.00071 Toluene: 0.00589			
	AP-42, 3.2	lb/MMBtu: PM/PM <sub>10</sub> : 0.01941 SO <sub>2</sub> : 0.0147			237 Hp 1.90 MMBtu/hr 500 hours of operation
06	Manuf Data	<u>g/Hp-hr</u> VOC: 1.8 CO: 60 NOx: 6.2	None	N/A	per year $SO_2 EF based on$ $5g/100 scf.$
	Calculated	Lb/MMBtu Acetaldehyde: 0.552 Acrolein: 0.520 Benzene: 0.313 Formaldehyde: 0.0205 Methanol: 0.605 Toluene: 0.110			HAPs EFs are determined by applying the AP-42 HAP/VOC ratio to the VOC EF.
	AP-42, 3.1	Ib/MMBtu: PM/PM <sub>10</sub> : 0.0066 SO <sub>2:</sub> 0.085 0.007379			43.7 MMBtu/hr
07	Manuf Data	lb/MMBtu VOC: 0.063 CO: 0.11 NOx: 0.596	None	N/A	SO <sub>2</sub> EF based on 5g/100 scf. HAPs EFs are
	Calculated	lb/MMBtu Acetaldehyde: 0.00181 Acrolein: 0.00029 Benzene: 0.00054 Formaldehyde: 0.00071 Toluene: 0.00589			determined by applying the AP-42 HAP/VOC ratio to the VOC EF.

# 16. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
01 & 07	CO	10	60 months	Department Guidance
01	NOx	20	60 months	Department Guidance NSPS Subpart GG
07	NOx	20	Annually or 2-years	Department Guidance NSPS Subpart KKKK

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SN	Pollutants	Test Method	Test Interval	Justification
Plantwide	Total Sulfur (SO <sub>2</sub> )	Methods outlined in section 2.3.5 or 2.3.3.1.2 of 40 CFR Part 75, Appendix D	5-year	Department Guidance

# 17. 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)
01	Fuel sulfur content	As specified in NSPS Subpart GG	Continuously	N
01	Fuel nitrogen content	As specified in NSPS Subpart GG	Continuously	N
07	Fuel sulfur content	As specified in NSPS Subpart KKKK	Continuously	N
07	Fuel nitrogen content	As specified in NSPS Subpart KKKK	Continuously	N
06	Hours of Operation	Non-resettable Hour Meter	Continuously	N

# 18. 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)
01	Fuel sulfur content	0.8% by wt.	Continuously	N
06	Hours of operation 500 h		Monthly	N
06	Maintenance Records	See Specific Condition #24	As necessary	N
07	Fuel sulfur content	20 grains per 100 scf	Continuously	N
Plantwide	Fuel sulfur content	5 grains per 100 scf	Continuously	N

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### 19. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
SN-01, SN-06, and SN-07	5 %	Dept. Guidance	Combustion of natural gas only

### 20. DELETED CONDITIONS:

Former SC	Justification for removal
	N/A

### 21. GROUP A INSIGNIFICANT ACTIVITIES:

The following is a list of Insignificant Activities including revisions by this permit.

	Group A Category	Emissions (tpy)							
Source Name		PM/ PM <sub>10</sub> SO <sub>2</sub>	SOa	VOC	СО	NO <sub>x</sub>	HAPs		
			502				Single	Total	
Produced Water									
Storage Tank	A-3			2.54			< 0.1	< 0.1	
(8820 gal)									
Lube Oil Tank	A-3			0.03			< 0.1	< 0.1	
(500 gal)	A-3			0.03			< 0.1	< 0.1	
A-3 TOTAL				2.57			< 0.2	< 0.2	
Facility blowdown A 12									
vents	A-13			0.26					
Turbine blowdown	A-13			0.38					
vents	A-13			0.38					
Plantwide fugitives	A-13			0.07			< 0.01	< 0.01	
Truck loading A-13				0.03			< 0.01	< 0.01	
A-13 TOTAL				0.74			< 0.02	< 0.02	

## 22. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

The following is a list of all active permits voided/superseded/subsumed by the issuance of this permit.

Permit #
1725-AOP-R4



Facility Name: Enable Gas Transmission, LLC - Round

Mountain Compressor Station Permit Number: 1725-AOP-R5

AFIN: 15-00068

\$/ton factor	23.93	Annual Chargeable Emissions (tpy)	259.4
Permit Type	Modification	Permit Fee \$	1000
Minor Modification Fee \$	500		
Minimum Modification Fee \$	1000		
Renewal with Minor Modification \$	500		
Check if Facility Holds an Active Minor Source or Mino	r		
Source General Permit			
If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$	0		
Total Permit Fee Chargeable Emissions (tpy)	-10.8		
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		Permit Fee Chargeable Emissions	Annual Chargeable Emissions
PM		2.5	2.7	0.2		
$PM_{10}$		2.5	2.7	0.2	0.2	2.7
PM <sub>2.5</sub>		0	0	0		
$SO_2$		29.8	3.1	-26.7	-26.7	3.1
VOC		10	24.5	14.5	14.5	24.5
со		181.8	50.1	-131.7		
$NO_X$		227.9	229.1	1.2	1.2	229.1
Acetaldehyde		1.35	0	-1.35		

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
Acrolein		0	0.37	0.37		
Formaldehyde		1.31	0.29	-1.02		
Total HAPs		2.66	4.55	1.89		
		0	0	0		
		0	0	0		
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