

STATEMENT OF BASIS

For the issuance of Draft Air Permit # 1244-AOP-R8 AFIN: 43-00093

1. PERMITTING AUTHORITY:

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

2. APPLICANT:

Enable Mississippi River Transmission, LLC (Carlisle Compressor Station)
Hillman Road, Route 1
Carlisle, Arkansas 72024

3. PERMIT WRITER:

Elliott Marshall

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Pipeline Transportation of Natural Gas
NAICS Code: 486210

5. ALL SUBMITTALS:

Date of Application	Type of Application (New, Renewal, Modification, Deminimis/Minor Mod, or Administrative Amendment)	Short Description of Any Changes That Would Be Considered New or Modified Emissions
6/28/2017	Administrative Ammendment	--

6. REVIEWER'S NOTES:

Enable Mississippi River Transmission, LLC (Carlisle Compressor Station) is a natural gas compressor station located about 10 miles south of Carlisle on Hillman Road, Route 1, in Lonoke County, Arkansas. The permit is issued as an administrative amendment. MRT requests the insignificant activity tank list be revised to show the replacement of the 1,500 gallon wastewater storage tank with one 1,680-gal produced water tank.

7. COMPLIANCE STATUS:

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

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? **Y**

- *Single pollutant ≥ 100 tpy and on the list of 28 or single pollutant ≥ 250 tpy and not on list*

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

This is an Administrative Amendment.

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
SN-01 through SN-08, 10	HAPs	NESHAP ZZZZ

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:

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

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/m^3), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

Pollutant	TLV (mg/m^3)	PAER (lb/hr) = $0.11 \times \text{TLV}$	Proposed lb/hr	Pass?
Formaldehyde	1.5	0.165	1.2836	N

Pollutant	TLV (mg/m ³)	PAER (lb/hr) = 0.11 × TLV	Proposed lb/hr	Pass?
Methanol	262.1	28.83	0.1915	Y
Acetaldehyde	45.1	4.95	0.1744	Y
Benzene	1.6	0.18	0.09859	Y
Toluene	75.36	8.29	0.03413	Y
Acrolein	0.23	0.03	0.1649	N

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 (µg/m ³) = 1/100 of Threshold Limit Value	Modeled Concentration (µg/m ³)	Pass?
Formaldehyde	15	3.99	Y
Acrolein	2.3	0.682	Y

12. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01 to 08	CO and NO _x : Stack Testing VOC, PM, PM ₁₀ , SO ₂ : AP-42 Table 3.2-3 HAPs: GRI- HAPCalc	CO: 3.8205 lb/MMbtu NO _x : 2.9158 lb/MMbtu VOC: 0.0296 lb/MMbtu PM/PM ₁₀ : 0.0194 lb/MMbtu SO ₂ : 0.000588 lb/MMbtu Formaldehyde: 0.0677 gm/hp-hr Methanol: 0.0101 gm/hp-hr Acetaldehyde: 0.0092 gm/hp-hr Benzene: 0.0052 gm/hp-hr Toluene: 0.0018 gm/hp-hr Acrolein: 0.0087 gm/hp-hr	None	N/A	SN-01-04, SN-07,08 1100 hp SN-05,06 1000 hp 13.93 MMBtu/hr 5500 hr/yr

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
10	NO _x : AGA Emission Factors CO, VOC, PM, PM ₁₀ SO ₂ : AP-42 Table 3.2-3 HAPs: GRI-HAPCalc	NO _x : 7.2715 lb/MMbtu CO: 3.72 lb/MMbtu VOC: 0.0296 lb/MMbtu PM/PM ₁₀ : 0.0194 lb/MMbtu SO ₂ : 0.000588 lb/MMbtu Formaldehyde: 0.0677 gm/hp-hr Methanol: 0.0101 gm/hp-hr Acetaldehyde: 0.0092 gm/hp-hr Benzene: 0.0052 gm/hp-hr Toluene: 0.0018 gm/hp-hr Acrolein: 0.0087 gm/hp-hr	None	N/A	2.65 MMBtu/hr 500 hr/yr 300 hp

13. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
SN-01 through SN-08 Stack Testing	CO NO _x	Method 10 and 7E	One-half of eight compressor engines every 5 years	See Plantwide Condition #10 in permit.

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)
10	Hours of Operation	Non-resettable hour meter	When in operation	N
SN-01 through SN-08	Hours of Operation	Hour meter	Continuous as used	N

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)
01-08	Records required to maintain remote status	40 CFR §63.6675	Every 12 months	N
01-08, 10	Maintenance Conducted	-	See Plantwide Conditions	N
01-08	Hours of operation	5500 each engine	Monthly	N
10	Hours of operation	500 hours (emergency and non-emergency) per calendar year each. Emergency operation in excess of these hours may be allowable but shall be reported	Monthly	N

16. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
01 thru 08, 10	5%	Department Guidance	Natural Gas Fuel Only

17. DELETED CONDITIONS:

Former SC	Justification for removal
	None

18. GROUP A INSIGNIFICANT ACTIVITIES:

Source Name	Group A Category	Emissions (tpy)						
		PM/P M ₁₀	SO ₂	VOC	CO	NO _x	HAPs	
							Single	Total
Used Oil	A-3			0.01			<0.01	<0.01
Produced Water	A-3			1.92			<0.01	<0.01
Engine Oil	A-3			0.01			<0.01	<0.01

Source Name	Group A Category	Emissions (tpy)						
		PM/P M ₁₀	SO ₂	VOC	CO	NO _x	HAPs	
							Single	Total
Antifreeze	A-3			0.01			<0.01	<0.01
Antifreeze	A-3			0.01			<0.01	<0.01
Produced Water	A-3			0.01			<0.01	<0.01
TOTAL A-3 Activities				1.97			0.06	0.06
Blowdown Vent	A-13			0.10				
Piping Component Fugitive Emissions	A-13			0.32			0.01	0.01
TOTAL A-13 Activities				0.42			0.01	0.01

19. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

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

Permit #
1244-AOP-R7

APPENDIX A – EMISSION CHANGES AND FEE CALCULATION

Fee Calculation for Major Source

Revised 03-11-16

Facility Name: Enable Mississippi River Transmission,
 LLC
 Permit Number: 1244-AOP-R8
 AFIN: 43-00093

\$/ton factor		23.93	Annual Chargeable Emissions (tpy)	915.6
Permit Type	AA		Permit Fee \$	0

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	<input type="checkbox"/>
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		6.5	6.5	0		
PM ₁₀		6.5	6.5	0	0	6.5
PM _{2.5}		0	0	0		
SO ₂		0.9	0.9	0	0	0.9
VOC		9.7	9.7	0	0	9.7
CO		1173.7	1173.7	0		
NO _x		898.5	898.5	0	0	898.5
Total HAP	<input type="checkbox"/>	5.41	5.41	0		