STATEMENT OF BASIS

For the issuance of Air Permit # 1513-AOP-R5 AFIN: 61-00076

1. PERMITTING AUTHORITY:

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

2. APPLICANT:

Enable Mississippi River Transmission, LLC (Biggers Compressor Station) 278 Gas Plant Road Biggers, Arkansas 72413

3. PERMIT WRITER:

Joseph Hurt

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Pipeline Transportation of Natural Gas

NAICS Code: 486210

5. 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 |
|---------------------|--|---|
| 3/4/2014 | Renewal with modification | Addition of the gasoline storage tank (SN-13) as a permitted source. |

6. REVIEWER'S NOTES:

Enable Mississippi River Transmission, LLC (MRT) owns and operates the Biggers Natural Gas Compressor Station which is located in Biggers, Randolph County, Arkansas. The facility has submitted an application to renew the facility's Title V permit. In addition to the renewal, the facility has installed nonselective catalytic converters (NSCR) on the compressor engines (SN-01, SN-02, SN-04, SN-05, SN-06, and SN-07) for compliance with 40 CFR Part 63, Subpart ZZZZ and is claiming the emissions reduction for CO and NO_x with this permit. The facility is removing the hours of operation limit for turbine (SN-11), and the emissions from this source are now based on 8,760 hours of operation. The hours of operation limit for the emergency generator (SN-

AFIN: 61-00076 Page 2 of 8

09) is being reduced from 4,032 hours to 500 hours of operation. The gasoline storage tank (SN-13) was removed from the insignificant activities list, and permitted as a source with this permitting action. The total permitted emission increases include 1.0 tpy of PM/PM₁₀, 0.5 tpy of SO₂, and 0.12 tpy of Acetaldehyde. The total permitted emission decreases include 5.1 tpy of VOC, 1,087.1 tpy of CO, and 958.4 tpy of NO_x. The Total HAP emissions were set to 3.54 tpy.

7. COMPLIANCE STATUS:

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

The facility was last inspected on September 2, 2015. No areas of concern were identified.

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?

N

• 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-11 | SO ₂ and NOx | 40 CFR Part 60, Subpart GG |
| SN-01, SN-02, SN-04 through SN-07, SN-09, and SN-12 | Formaldehyde | 40 CFR Part 63, Subpart ZZZZ |
| SN-13 | There are no specific emission limits or pollutants identified, but the rules generally regulate HAPs | 40 CFR Part 63, Subpart CCCCCC |
| SN-01, SN-02, and SN-04 through SN-07 | NO _x | 40 CFR Part 64 (CAM) |

10. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

AFIN: 61-00076 Page 3 of 8

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/m³), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

| Pollutant | TLV (mg/m³) | $PAER (lb/hr) = 0.11 \times TLV$ | Proposed lb/hr | Pass? |
|--------------|--------------------|----------------------------------|----------------|-------|
| Acetaldehyde | 45 | 4.95 | 0.36 | Yes |
| Acrolein | 0.229 | 0.025 | 0.15 | NO |
| Benzene | 1.59 | 0.175 | 0.09 | Yes |
| Formaldehyde | 1.5 ^a . | 0.165 | 0.51 | NO |
| Methanol | 262 | 28.8 | 0.14 | Yes |
| Toluene | 75 | 8.28 | 0.09 | Yes |

a. Based on the ADEQ approved alternate PAIL.

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.

| PAIL (μ g/m ³) = 1/100 of Threshold Limit Value | Modeled Concentration (μg/m³) | Pass? |
|---|-------------------------------|--------------|
| 2.29 | 0.59293 | YES |
| 15.0 ^a | 1.32348 | YES |
| | Threshold Limit Value 2.29 | 2.29 0.59293 |

a. ADEQ approved alternate PAIL.

AFIN: 61-00076 Page 4 of 8

12. CALCULATIONS:

| SN | Emission Factor Source (AP-42, testing, etc.) | Emission Factor (lb/ton, lb/hr, etc.) | Control Equipment | Control Equipment Efficiency | Comments |
|---|---|--|----------------------|------------------------------------|---|
| 01, 02, 04, 05, 06, & 07 | NO _x & CO per testing. VOC, PM10 & SO2 per AP-42 (7/00, 3.2-3) HAPs | Uncontrolled lb/hr: 44.90 CO 42.20 NO _x lb/MMBtu: 2.96E-02 VOC 1.94E-02 PM ₁₀ 5.88E-04 SO ₂ GRI-HAPCalc (V3.01) | NSCR | 76% for Formaldehyde | Controlled lb/hr: 8.98 CO 8.44 NO _x Based on 4000 hours of operation annually for each compressor engine |
| 09 | NO _x , CO, VOC, PM10 & SO2 per AP-42 (7/00, 3.2-3) HAPs | $\begin{array}{c} \text{lb/MMBtu:} \\ 2.27 \text{ NO}_{x} \\ 3.72 \text{ CO} \\ 2.96\text{E-02 VOC} \\ 1.94\text{E-02 PM}_{10} \\ 5.88\text{E-04 SO}_{2} \\ \\ \text{GRI-HAPCalc} \\ \text{(V3.01)} \end{array}$ | N/A | N/A | Tpy emissions are calculated based on 500 hours of operation annually. |
| 11 | NO _x & CO per Manufacturer's data. VOC, PM10 & SO2 per AP-42 (7/00, 3.1-2a) HAPs | lb/hr: 32.50 NO _x 7.00 CO lb/MMBtu: 2.10E-03 VOC 6.60E-03 PM ₁₀ 3.40E-03 SO ₂ GRI-HAPCalc (V3.01) | N/A | N/A | |

AFIN: 61-00076 Page 5 of 8

| SN | Emission Factor Source (AP-42, testing, etc.) | Emission Factor (lb/ton, lb/hr, etc.) | Control Equipment | Control Equipment Efficiency | Comments |
|----|---|---|----------------------|------------------------------------|--|
| 12 | NO _x , CO, VOC, PM10 & SO2 per AP-42 (7/00, 3.2-3) HAPs | Ib/MMBtu: 2.27 NO _x 3.72 CO 2.96E-02 VOC 1.94E-03 PM ₁₀ 5.88E-04 SO ₂ GRI-HAPCalc (V3.01) | N/A | N/A | Tpy emissions are calculated based on 500 hours of operation annually. |
| 13 | EPA Tanks software | Varies | N/A | N/A | 548 gallon capacity |

13. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

| SN | Pollutants | Test Method | Test Interval | Justification |
|--------------|------------------------------------|---|---|------------------------|
| Plantwide | Total Sulfur (SO ₂) | Methods outlined in section 2.3.5 or 2.3.3.1.2 of 40 CFR Part 75, Appendix D | Every five years | Department Guidance |
| 01, 02, & 04 | NO _x & CO | 7E & 10 | One half of every engine every five years | Department Guidance |
| 05, 06, & 07 | NO _x & CO | 7E & 10 | One half of every engine every five years | Department Guidance |
| 11 | NO _x & CO | 7E/20 & 10 | Every five years | Department Guidance |

AFIN: 61-00076 Page 6 of 8

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) |
|------------------------------|--|--|--------------|-----------------|
| 11 | Fuel sulfur content | As specified in NSPS Subpart GG | Continuously | N |
| | Fuel nitrogen content | As specified in NSPS Subpart GG | Continuously | N |
| 01 02 and 04 | Catalyst inlet temperature | In-line thermocouple | Continuously | Y |
| 01, 02, and 04 through 07 | O ₂ concentration into the catalyst | In-line O ₂ sensor | Continuously | Y |
| | Pressure drop | Pressure gauge | Monthly | Y |

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) |
|------------------------|--|--|--------------|--------------|
| į | Hours of operation | 4,000 hours per rolling 12-month period (each) | Monthly | Y |
| | Catalyst Inlet Temperature | 750°F - 1250°F | Continuously | Y |
| 01, 02, and 04 through | O ₂ concentration into the catalyst | ±200 mv from the operating voltage determined during the baseline test | Continuously | Y |
| 07 | Pressure Drop across Catalyst | ±2 inches of water from the pressure drop measured during the baseline test | Monthly | Y |
| | Records required by 63.6655 | N/A | N/A | Y |
| | Maintenance Conducted | N/A | N/A | Y |

AFIN: 61-00076 Page 7 of 8

| SN | Recorded Item | Permit Limit | Frequency | Report (Y/N) |
|----|---------------------------|---|--------------|--------------|
| 09 | Hours of Operation | 500 hours per calendar year | Monthly | Y |
| | NO _x emissions | 230 ppm | Continuously | N |
| 11 | Fuel sulfur content | 0.8% by wt. | Continuously | N |
| 12 | Hours of operation | 500 hour per rolling 12- month period | Monthly | Y |
| 13 | Gasoline throughput | 6,576 gallons per rolling 12-month total | Monthly | Y |

16. OPACITY:

| SN | Opacity | Justification for limit | Compliance Mechanism |
|------------------------|---------|-------------------------|--------------------------------|
| Plantwide except SN-13 | 5 % | Department Guidance | Combustion of natural gas only |

17. DELETED CONDITIONS:

| Former SC | Justification for removal |
|------------|---|
| SC 15 & 16 | The emissions associated with the turbine (SN-11) are now based on 8,760 hours of operation. Therefore, recordkeeping requirements of hours of operations are no longer required. |
| PWC 8 | This condition was combined with PWC 7. |

18. GROUP A INSIGNIFICANT ACTIVITIES:

| Source Name | Group A Category | Emissions (tpy) | | | | | | | |
|-------------------------|---------------------|---------------------|-----------------|-------|-------|-----------------|--------------|-------------|--|
| | | PM/PM ₁₀ | SO ₂ | VOC | CO | NO _x | HA Single | Ps Total | |
| 0.1 MMBtu/hr Boiler | A-1 | 0.003 | 0.001 | 0.002 | 0.004 | 0.04 | | | |
| Total | A-1 | 0.003 | 0.001 | 0.002 | 0.004 | 0.04 | | | |
| | | <u> </u> | | | | | 0.01 | 0.01 | |
| Methanol Tank (168 gal) | A-2 | | | 0.01 | | | 0.01 | 0.01 | |
| Kerosene Tank (168 gal) | A-2 | | | 0.001 | | | | | |
| Total | A-2 | | | 0.011 | | | 0.01 | 0.01 | |

AFIN: 61-00076 Page 8 of 8

| Source Name | Group A Category | Emissions (tpy) | | | | | | | |
|------------------------------------|---------------------|---------------------|-----------------|-------|------|-----------------|--------------|-------------|--|
| | | PM/PM ₁₀ | SO ₂ | VOC | СО | NO _x | HA Single | Ps Total | |
| | | | | | | | | | |
| Used Oil Tank (1,176 gal) | A-3 | | , | 0.001 | | | | | |
| Entrained Liquids Tank (7,518 gal) | A-3 | | | 0.04 | | | | | |
| Antifreeze Tank (4,200 gal) | A-3 | | | 0.001 | | | | | |
| Antifreeze Mix Tank (7,000 gal) | A-3 | | | 0.001 | _ | | | | |
| Diesel Tank (1,134 gal) | A-3 | | | 0.001 | | | | | |
| Waste Water Tank (4,700) | A-3 | | | 0.07 | | | | | |
| Total | A-3 | | | 0.114 | | | | | |
| Piping Component Fugitives | A-13 | | | 0.19 | | | | | |
| Engine blowdowns | A-13 | | | 0.10 | | | | | |
| Oil Storage Tank (11,298 gal) | A-13 | | | 0.01 | | | | | |
| Smart Ash Incinerator | A-13 | 0.27 | | 0.008 | 0.36 | | | | |
| Total | A-13 | 0.27 | | 0.308 | 0.36 | | | | |

19. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

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

| Permit # | |
|-------------|--|
| 1513-AOP-R3 | |

APPENDIX A – EMISSION CHANGES AND FEE CALCULATION

Fee Calculation for Major Source

Revised 08-26-15

Facility Name: Enable Mississippi River Transmission,

LLC (Biggers Compressor Station)
Permit Number: 1513-AOP-R5

AFIN: 61-00076

\$/ton factor 23.93 Annual Chargeable Emissions (tpy) 260.6 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 Minor Source General Permit If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$ 0

-962

HAPs not included in VOC or PM:

Total Permit Fee Chargeable Emissions (tpy)

Initial Title V Permit Fee Chargeable Emissions (tpy)

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 | | 4.9 | 5.9 | 1 | | |
| PM_{10} | | 4.9 | 5.9 | 1 | 1 | 5.9 |
| SO_2 | | 1.4 | 1.9 | 0.5 | 0.5 | 1,9 |
| VOC | | 11 | 5.9 | -5.1 | -5.1 | 5.9 |
| со | 1 | 1230.7 | 143.6 | | | 5, |
| NO_X | | 1205.3 | 246.9 | | -958.4 | 246.9 |
| Acetaldehyde | Shows. | 1.12 | 0 | -1.12 | | |
| Acrolein | _ | 0.61 | 0, | -0.61 | | |
| Benzene | Parent Control | 0.4 | 0 | -0.4 | | |
| Formaldehyde | r | 4.76 | 0 | -4.76 | ĺ | |
| Methanol | , | 0.66 | 0 | -0.66 | | |
| Toluene | · · | 0.16 | 0 | -0.16 | | |
| 1,3-Butadiene | | 0.21 | o | -0.21 | | |
| Total HAPs | J. | o | 3.54 | j | | |