STATEMENT OF BASIS

For the issuance of Air Permit # 1450-AOP-R4 AFIN: 24-00104

1. PERMITTING AUTHORITY:

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

2. APPLICANT:

SourceGas Arkansas Inc. (Lone Elm Compressor Station) 4511 Dogwood Lane Ozark, Arkansas 72949

3. PERMIT WRITER:

Joseph Hurt

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Pipeline Transportation of Natural Gas

NAICS Code: 486210

5. SUBMITTALS:

12/12/2012

6. REVIEWER'S NOTES:

Arkansas Western Gas Company (AWG) owns and operates the Lone Elm natural gas compressor station (AFIN: 24-00104) located at 4511 Dogwood Lane, Ozark, Arkansas 72949. With this Title V Renewal, the facility has added the applicable requirements of 40 CFR Part 63, Subpart ZZZZ. There were no permitted emission changes with this modification.

7. COMPLIANCE STATUS:

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

No compliance issues were noted during the last inspection, dated July 10, 2012.

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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, or
- $CO_{2}e$ potential to emit $\geq 100,000$ tpy and ≥ 100 tpy/ ≥ 250 tpy of combined GHGs?

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

9. GHG MAJOR SOURCE (TITLE V):

Inc	licate one:
	Facility is classified as a major source for GHG and the permit includes this
	designation
\boxtimes	Facility does not have the physical potential to be a major GHG source
	Facility has restrictions on GHG or throughput rates that limit facility to a minor
	GHG source. Describe these restrictions:

10. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
SN-01	There are no specific emission limits or pollutants identified, but the rules generally regulate HAPs. At the time of issuance of Permit 1450-AOP-R4, SN-01 was classified as a remote engine according 40 CFR Part 63, Subpart ZZZZ. The facility is required to annually verify that the engine is still classified as a remote engine, see Specific Condition 10.	40 CFR Part 63, Subpart ZZZZ

11. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

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12. NAAQS EVALUATIONS AND NON-CRITERIA POLLUTANTS:

a) NAAQS

(i) List the reason for a NAAQS evaluation (i.e. what changes are being permitted that would require the evaluation) and pollutants affected. If a NAAQS evaluation is not required, indicate why not.

This is a Title V Renewal with no changes. Therefore, no further action is required at this time.

(ii) If modeling was proposed and agreed to, list the results below:

Examination of the source type, location, plot plan, land use, emission parameters, and other available information indicate that modeling is not warranted at this time.

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?
1,3-Butadiene	4.4	0.48	0.01	Yes
Acrolein	0.229 ^a	0.025	0.04	No
Formaldehyde	0.368 ^a	0.04	0.10	No

a. STEL value

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.

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Pollutant	PAIL $(\mu g/m^3) = 1/100$ of Threshold Limit Value	Modeled Concentration (μg/m³)	Pass?
Acrolein	2.29	0.83362	Yes
Formaldehyde	15ª	2.08404	Yes

a. Alternate PAIL, see Permit Guidance Manual.

13. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01	Mfg Spec. for NO _X , CO, and VOC AP-42 for PM, PM ₁₀ , SO ₂ , and HAPs	g/hp-hr: 22 NO _x 1.5 CO 0.25 VOC lb/MMBtu 0.0095 PM ₁₀ 0.000588 SO ₂	None		Uncontrolled

14. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
01	NO _x CO	7E 10	No later than August 2, 2016, and once every 60 months thereafter.	Necessary to verify emissions
Plantwide	Total Sulfur	40 CFR Part 75, Appendix D section 2.3.5 or 2.3.3.1.2	Once every 5 years (Initial testing completed on 12/29/08)	Department Guidance

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15. 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)			
	N/A						

16. 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 used	Natural gas only	Continuously	N
01	Engine maintenance	Change oil and filter every 2,160 hours of operation, or annually, whichever comes first; Inspect air cleaner every 2,160 hours of operation or annually, whichever comes first; and Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary.	As needed	N

17. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
01	5 %	Natural Gas Combustion	At inspection

18. DELETED CONDITIONS:

Former SC	Justification for removal			
N/A				

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19. GROUP A INSIGNIFICANT ACTIVITIES

	Group A	Emissions (tpy)						
Source Name	Category	PM/PM ₁₀	20	VOC	oc co	NO	HAPs	
		PIVI/PIVI ₁₀	SO_2	VOC		NO _x	Single	Total
550 gallon Lube Oil Storage Tank	A-3			0.03				
6,300 gallon Production Fluid Collection Tank	A-3			0.01				
Blowdowns	A-13			0.01				
Fugitive Emissions	A-13			0.6			0.02	0.02

20. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

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

Permit #	
1450-AOP-R3	

21. CONCURRENCE BY:

The following supervisor concurs with the permitting decision.

Karen Cerney, P.E.



Fee Calculation for Major Source

Revised 08-20-12

Facility Name: SourceGas Arkansas Inc. (Lone Elm

Compressor Station)

Permit Number: 1450-AOP-R4

AFIN: 24-00104

\$/ton factor Permit Type	22.97 Modification	Annual Chargeable Emissions (tpy) Permit Fee \$	193.9 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	Γ		
If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$	0		
Total Permit Fee Chargeable Emissions (tpy) Initial Title V Permit Fee Chargeable Emissions (tpy)	0		

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	V	1.2	1.2	0	0	1.2
PM_{10}	J	0.6	0.6	0		
SO_2	V	0.1	0.1	0	0	0.1
voc	굣	2.2	2.2	0	0	2.2
co	Province:	13	13	0		!
NO _X	V	190.4	190.4	0	0	190.4
1,3-Butadiene	<u> </u>	0.05	0.05	0		
Acrolein		0.16	0.16	0		
Formaldehyde		0.44	0.44	0	}	