



ARKANSAS

ENERGY & ENVIRONMENT

December 8, 2022

Via Email Only to: Amanda.Swope@blackhillscorp.com

Amanda Swope
Environmental Professional
Black Hills Energy Arkansas Inc. - Lone Elm Compressor Station
655 East Millsap Road, Suite 104
Fayetteville, AR 72703

RE: AFIN #: 24-00104 Tracking #: 1868-AGP-471
 General Air Permit for Minor Source Natural Gas Compression Stations
 Notice of Intent - New

Dear Ms. Swope,

The Division of Environmental Quality has reviewed your facility's Notice of Intent (NOI) and we have made a determination that the information certified in the NOI fulfills the required criteria for general permitting as specified in the Arkansas Plan of Implementation for Air Pollution Control (Rule 19), the Arkansas Pollution Control Code (Rule 18), and other applicable rules. The tracking number for Black Hills Energy Arkansas Inc. - Lone Elm Compressor Station, located at 4511 Dogwood Lane, Ozark, AR 72949 is 1868-AGP-471. A copy of the general permit is available at <https://www.adeq.state.ar.us/air/permits/> under the "General Air Permits" link. If you would like to receive a hardcopy of the permit via mail, please contact Rhonda Bowler at 501-682-0765 or bowler@adeq.state.ar.us. This permit and tracking number is your authority to construct, operate, and maintain the equipment and/or control apparatus as set forth in your NOI received on 12/7/2022 and attached to this letter.

This authorization expires upon expiration of the General Air Permit for Minor Source Natural Gas Compression Stations on December 13, 2025. This confirmation letter shall be considered part of the permit. Please place this letter at the facility.

Sincerely,

A handwritten signature in cursive script that reads 'Thomas Rheaume'.

Thomas Rheaume, P.E.
Senior Operations Manager, Office of Air Quality, Division of Environmental Quality
5301 Northshore Drive, North Little Rock, AR 72118-5317

Enclosure



Air Permit Notice of Intent (NOI) for Minor Source General Air Permit for Natural Gas Compression Stations 1868-AGP-000

version 4.10

(Submission #: HPP-RCES-MYBEJ, version 1)

Details

AFIN 24-00104
Reference # 1868-AGP-471
Submission ID HPP-RCES-MYBEJ

Form Input

Applicability

Requirements for Natural Gas Compression Stations General Permit Applicants

In order to be eligible for this permit the facility must meet the conditions, limits and requirements contained in the general permit.

Requirements include, but are not limited to:

- Engines are not allowed to provide electricity to the grid except as allowed under the definition and limits of "emergency engines" in 40 C.F.R. 60 Subpart JJJJ or 40 C.F.R. 63 Subpart ZZZZ.
- Only spark ignition engines are allowed/covered by this permit.
- No fuel other than natural gas is allowed to be combusted in stationary sources.
- Fugitive VOC emissions must be less than 5 tons per year.
- If there is an amine sweetener at the facility, the design capacity must be below two tons per day of Hydrogen Sulfide expressed as sulfur and emissions of Hydrogen Sulfide are limited to 2.37 tons per year.
- If the facility has a Triethylene Glycol (TEG) Dehydration unit, the benzene emissions must be below 1 ton/year of benzene for each unit.
- Gasoline throughput is limited to less than 10,000 gallon per month.

[Click here for the Natural Gas Compression General Permit](#)

Does the facility meet the conditions stated in the general permit including but not limited to those requirements listed above?

Yes

General Information

AFIN, NOI Type, Current Air Permits, and Changes

Indicate below the Arkansas DEQ Facility Identification Number (AFIN), type of NOI, clearly and concisely indicate the changes associated with this NOI and list any active air permit number.

Arkansas DEQ Facility Identification Number (AFIN)

24-00104

Select the Type of NOI

New

List All Changes Associated with this NOI or Indicate "None"

Remove a Waukesha L7042G (896hp) and replace with a Waukesha F18GL (400hp). The current Title V permit (1450-AOP-R6) will be terminated upon installation of the replacement engine.

List Current Active Air Permit Number for the Facility (If Applicable)

1450-AOP-R6

Air Permit NOI Contact Information

In many cases, the person who prepared and is most knowledgeable about the NOI is someone other than the person who signed the NOI. Information in this table should allow the Office of Air Quality to contact this person. If this section is blank and the Office of Air Quality requires additional information, we will contact the person listed in the mailing address.

Air Permit NOI Contact Information

Air Permit NOI Contact

First Name Last Name

Amanda Swope

Title

Senior Environmental Professional

Phone Type Number Extension

Business 4796018390

Email

amanda.swope@blackhillscorp.com

Air Permit NOI Contact Address

655 E. Millsap Road
Fayetteville, AR 72703

Applicant Information

Facility Information

Please provide the following information about the facility.

Legal Name - Facility Name

Black Hills Energy Arkansas Inc. - Lone Elm Compressor Station

North American Industry Classification System (NAICS)

Please provide the NAICS codes and description for your facility.

[Click here to search for and review the NAICS Codes via the Census Bureau NAICS Lookup](#)

Primary NAICS Code and Description

486210

Facility Physical Address

Physical Address

4511 Dogwood Lane
Ozark, AR 72949

Facility Physical County

Franklin

Facility Physical Location Latitude and Longitude

35.536263, -93.945297

Facility Mailing Address

Mailing Contact

Prefix

Ms.

First Name Last Name

Amanda Swope

Title

Senior Environmental Professional

Phone Type Number Extension

Business 4796018390

Email

Amanda.Swope@blackhillscorp.com

Mailing Address

655 East Millsap Road

Fayetteville, AR 72703

[NO COUNTRY SPECIFIED]

Additional Facility Email Contact

If you want an additional facility contact to be included on emails of correspondence for this facility, please enter their email address below. This contact should be facility personnel only.

Enter the Additional Facility Email Contact

NONE PROVIDED

Billing Information

Please provide the following information for the Billing contact for this NOI.

Billing Information

Billing Contact

First Name Last Name

Amanda Swope

Title

Senior Environmental Professional

Organization Name

Black Hills Energy Arkansas, Inc.

Phone Type Number Extension

Business 4796018390

Email

amanda.swope@blackhillscorp.com

Billing Address

655 E. Millsap Road

Fayetteville, AR 72703

Organizational Information

Please provide the following information for the applicant. If the applicant is a Corporation, Limited Liability Company, Limited Partnership, or Cooperative; your legal name must exactly match the name registered with the Arkansas Secretary of State. Please use the following link to reference the Secretary of State registered name listing. The Proof of Good Standing for entities chartered outside of Arkansas is not required for Administrative Changes.

All Corporations, Limited Liability Companies (LLC), Limited Partnerships (LP, LLP, and LLLP), and Cooperatives must be registered and in good standing with the Arkansas Secretary of State and the state of origin (if other than Arkansas).

[Click here to view the Secretary of State registered name listing](#)

Legal Organization

Corporation (Domestic or Foreign, includes for-profit, nonprofit, and corporation d/b/a company)

Enter the Arkansas Secretary of State's Filing Number

100003980

Indicate if the Applicant is chartered in Arkansas (i.e. domestic) or chartered in a state other than Arkansas (i.e. foreign). Refer to the State of Origin that is listed on the Arkansas Secretary of State's website for this applicant.
Domestic (Arkansas)

Disclosure Statement or Securities and Exchange Commission (SEC) Reports (Required for Initial Permits, Renewals, and any time the Disclosure Statement has Changed)

Arkansas Code Annotated 8-1-106 requires that all applicants for the issuance or transfer of any permit submit a disclosure statement with their applications. Some exceptions apply (refer to the form for details).

The disclosure form is a separate form and can be obtained using the link below.
[Click Here for the DEQ Disclosure Statement Form](#)

Attach the Disclosure Statement or SEC Annual and Quarterly Reports

[10-Q.pdf - 08/08/2022 04:38 PM](#)
[Annual Report.pdf - 08/08/2022 04:38 PM](#)
Comment
NONE PROVIDED

Responsible Official Information

Provide the information below for the person under whose electronic signature or hardcopy signature this form will be certified when completed. This person must be a responsible official. For the definition of responsible official click the link below.
[Click Here for the Definition of Responsible Official](#)

Responsible Official

First Name **Last Name**
Chad *Kinsley*
Title
Vice President, Operations
Company or Agency of the Responsible Official
Black Hills Energy Arkansas, Inc.

How Does the Person Certifying this Submission Qualify as a Responsible Official?

The person is the vice-president of the corporation, LLC, or cooperative in charge of a principle business function

How Will the Responsible Official Certify this Submission?

The Responsible Official will submit this submission using their electronic signature

Facility Information

Does this facility have any engines or turbines?

Yes

How many, if any, engines are used for compression at the facility?

1

How many, if any, engines are used for emergency power at the facility?

0

Does the facility have an amine sweetener?

No

Does the facility have a Triethylene Glycol Dehydration (TEG) unit?

No

Does the facility have a boiler with an input capacity greater than 10 MMBTU/hr

No

Does the facility have a gasoline storage tank?

No

Facility Wide Emissions

Provide the overall facility emissions of all sources, significant and insignificant.

Total Particulate Matter/ Particulate Matter 10 (PM/PM10) emissions from this facility in tons/year:

0.13

Total Sulfur Dioxide (SO2) emissions from this facility in tons/year:

0.01

Total Volatile Organic Carbon (VOC) emissions from this facility in tons/year:

1.66

Total Carbon Monoxide (CO) emissions from this facility in tons/year:

5.02

Total Nitrogen Oxide (NOx) emissions from this facility in tons/year:

7.72

Highest single HAP emission from this facility in tons/year:

0.69

Total HAP emissions from this facility in tons/year:

0.96

Total Hydrogen Sulfide (H2S) emissions from this facility in tons/year:

0.01

Individual Source Emissions and Calculations

[Waukesha F18GL.pdf - 08/08/2022 04:45 PM](#)

Comment

NONE PROVIDED

Compressor Station/Remote Status Map.

[RICE_LoneElm_2022.pdf - 08/08/2022 04:46 PM](#)

Comment

NONE PROVIDED

Engine/Turbine Information

Engine/Turbine Information

Complete the following form. Attach a separate Engine/Turbine Form for each unit. Download the form, complete and attach below one form for each engine.

[Click here to download the Engine and Turbine Form](#)

Attach the Engine/Turbine Form(s)

[Engine Summary Form_Lone Elm.pdf - 09/15/2022 10:58 AM](#)

Comment

NONE PROVIDED

Are all engine/turbine serial numbers provided in the attached documents?

Yes

Insignificant Activities and Other Information

Insignificant Activities

List below any emission sources other than those listed in the permit. These must qualify as insignificant activities listed in Appendix A, Group A of Regulation 18 or 19. For insignificant activities with a numerical standard in Appendix A, Group A of Regulation 18 or 19, calculations demonstrating compliance with the numerical standard must be provided also.

Insignificant Activities

Lubricating Oil Tank
Produced Water Tank
Equipment Leaks
Blowdowns
Rod Packing
Pneumatics

Attach Calculations and/or Detailed Lists for the Insignificant Activities Listed, if Necessary

[Insignificant Activities.pdf - 09/15/2022 01:57 PM](#)

Comment

NONE PROVIDED

Other Information (Optional)

Attach any other information that you wish to be considered in this application.

Attach Any Other Information

NONE PROVIDED

Comment

NONE PROVIDED

Fee Requirements

Initial Fee

\$200

How do you intend to pay your fee?

Online (a small additional processing fee is applied)

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- I am the owner of the account used to perform the electronic submission and signature.
- I have the authority to submit the data on behalf of the facility I am representing.
- I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

*****The person digitally signing this form must be the same person referenced as the Responsible Official in this form or you must return to the previous screen and select the hard copy signature option and submit the hard copy certification with the Responsible Official's signature. If you are using the hard copy certification method, your application will not be considered complete until the original hard copy certification is received.*****

Certification

I certify under penalty of law that this Notice of Intent and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed Chad Kinsley on 12/07/2022 at 10:35 AM
By

SUPPLEMENTAL INTERNAL COMBUSTION ENGINE SUMMARY FORM

Unit No. 1

Engine Manufacturer:	Waukesha	Model:	F18GL
Serial Number:	C-16814/1		
Construction Date		Date of last modification or reconstruction	
Engine Type: (check one)	Spark Ignition <input type="checkbox"/> 2 Stroke <input checked="" type="checkbox"/> 4 Stroke	Model Year:	2007
Maximum Rated Output: (bhp)		Date Engine Ordered:	2007
400		Engine Displacement (cc):	Displacement Per Cylinder (L/cylinder):
		1096 cu in	182.67
Primary Use:	<input type="checkbox"/> Electrical Generation <input checked="" type="checkbox"/> Compressor Driver <input type="checkbox"/> Other (specify): _____		
Is the engine subject to 40 C.F.R. § 60 Subpart JJJJ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is the engine certified?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, list certification standard. _____		
Engine type for 40 C.F.R. § 63 Subpart ZZZZ	_____		
Complies with ZZZZ by compliance with 40 C.F.R. § 60 Subpart JJJJ	<input type="checkbox"/> Emergency Engine <input type="checkbox"/>		
Four Stroke Lean Burn Non-Emergency Engines ≤500 hp	<input checked="" type="checkbox"/> Four Stroke Rich Burn Non-Emergency Engines ≤500 hp <input type="checkbox"/>		
Four Stroke Lean Burn Remote Non-Emergency Engines >500 hp	<input type="checkbox"/> Four Stroke Lean Burn Non-Remote Non-Emergency Engines >500 hp <input type="checkbox"/>		
Four Stroke Rich Burn Remote Non-Emergency Engines >500 hp	<input type="checkbox"/> Four Stroke Rich Burn Non-Remote Non-Emergency Engines >500 hp <input type="checkbox"/>		
All Two Stroke Lean Burn Non-Emergency Engines	<input type="checkbox"/>		
Add on Control:	<input type="checkbox"/> Oxidation catalyst <input checked="" type="checkbox"/> None <input type="checkbox"/> Non-selective catalytic reduction (NSCR)		

TURBINE ENGINE SUMMARY FORM

Turbine Manufacturer:		Model:	
Construction Date		Date of last modification or reconstruction	
Serial Number:	_____		
Heat input at peak load MMBtu/hr	_____		
Subject to 40 C.F.R.60 Subpart GG?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Subject to 40 C.F.R.60 Subpart KKKK?	<input type="checkbox"/> Yes <input type="checkbox"/> No		

**Lone Elm Compressor Station
Natural Gas 4-Stroke Lean Burn Engine**

Source ID	SN-01
Description	4 Stroke Lean Burn
Manufacturer	Waukesha
Model	F18GL
Emission Control	None

Fuel Heat Value	1000 Btu/scf
Design Output	400 hp
Site Output	400 hp
Potential Operation	8760 hr/yr
Potential Heat Rate	7500 Btu/hp-hr
Potential Heat Rate	3.00 MMBtu/hr
Potential Fuel Use	3000 scf/hr
Potential Fuel Use	26.28 MMscf/yr

Potential to Emit

Pollutant	CAS Number	Emission Factor (lb/MMBtu)	Emission Factor (g/hp-hr)	(lb/hr)	(lb/yr)	(ton/yr)	Source of Emission Factor
NOx		--	2.00	1.764	15449.995	7.725	Manf Spec
CO		--	1.30	1.146	10042.497	5.021	Manf Spec
VOC		--	0.27	0.238	2085.749	1.043	Manf Spec
SO2		0.000588		0.002	15.453	0.008	AP-42
PM		9.91E-03		0.030	260.435	0.130	AP-42
PM10		7.71E-05		0.000	2.026	0.001	AP-42
1,1,2,2-Tetrachloroethane ^k		4.00E-05		1.20E-04	1.051	5.26E-04	AP-42
1,1,2-Trichloroethane ^k		3.18E-05		9.54E-05	0.836	4.18E-04	AP-42
1,3-Butadiene ^k		2.67E-04		8.01E-04	7.017	3.51E-03	AP-42
1,3-Dichloropropene ^k		2.64E-05		7.92E-05	0.694	3.47E-04	AP-42
2-Methylnaphthalene ^k		3.32E-05		9.96E-05	0.872	4.36E-04	AP-42
2,2,4-Trimethylpentane ^k		2.50E-04		7.50E-04	6.570	3.29E-03	AP-42
Acenaphthene ^k		1.25E-06		3.75E-06	0.033	1.64E-05	AP-42
Acenaphthylene ^k		5.53E-06		1.66E-05	0.145	7.27E-05	AP-42
Acetaldehyde ^{k,l}		8.36E-03		2.51E-02	219.701	1.10E-01	AP-42
Acrolein ^{k,l}		5.14E-03		1.54E-02	135.079	6.75E-02	AP-42
Benzene ^k		4.40E-04		1.32E-03	11.563	5.78E-03	AP-42
Benzo(b)fluoranthene ^k		1.66E-07		4.98E-07	0.004	2.18E-06	AP-42
Benzo(e)pyrene ^k		4.15E-07		1.25E-06	0.011	5.45E-06	AP-42
Benzo(g,h,i)perylene ^k		4.14E-07		1.24E-06	0.011	5.44E-06	AP-42
Biphenyl ^k		2.12E-04		6.36E-04	5.571	2.79E-03	AP-42
Carbon Tetrachloride ^k		3.67E-05		1.10E-04	0.964	4.82E-04	AP-42
Chlorobenzene ^k		3.04E-05		9.12E-05	0.799	3.99E-04	AP-42
Chloroform ^k		2.85E-05		8.55E-05	0.749	3.74E-04	AP-42
Chrysene ^k		6.93E-07		2.08E-06	0.018	9.11E-06	AP-42
Ethylbenzene ^k		3.97E-05		1.19E-04	1.043	5.22E-04	AP-42
Ethylene Dibromide ^k		4.43E-05		1.33E-04	1.164	5.82E-04	AP-42
Fluoranthene ^k		1.11E-06		3.33E-06	0.029	1.46E-05	AP-42
Fluorene ^k		5.67E-06		1.70E-05	0.149	7.45E-05	AP-42
Formaldehyde ^{k,l}		5.28E-02		1.58E-01	1387.584	6.94E-01	AP-42
Methanol ^k		2.50E-03		7.50E-03	65.700	3.29E-02	AP-42
Methylene Chloride ^k		2.00E-05		6.00E-05	0.526	2.63E-04	AP-42
n-Hexane ^k		1.11E-03		3.33E-03	29.171	1.46E-02	AP-42
Naphthalene ^k		7.44E-05		2.23E-04	1.955	9.78E-04	AP-42
PAH ^k		2.69E-05		8.07E-05	0.707	3.53E-04	AP-42
Phenanthrene ^k		1.04E-05		3.12E-05	0.273	1.37E-04	AP-42
Phenol ^k		2.40E-05		7.20E-05	0.631	3.15E-04	AP-42
Pyrene ^k		1.36E-06		4.08E-06	0.036	1.79E-05	AP-42
Styrene ^k		2.36E-05		7.08E-05	0.620	3.10E-04	AP-42
Tetrachloroethane ^k		2.48E-06		7.44E-06	0.065	3.26E-05	AP-42
Toluene ^k		4.08E-04		1.22E-03	10.722	5.36E-03	AP-42
Vinyl Chloride ^k		1.49E-05		4.47E-05	0.392	1.96E-04	AP-42
Xylene ^k		1.84E-04		5.52E-04	4.836	2.42E-03	AP-42
TOTAL HAPS				2.17E-01	1.90E+03	9.49E-01	