



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: 082020-004 Project Number: 2020-02-025
Installation Number: 129-0019

Parent Company: Roeslein Alternative Energy, LLC

Parent Company Address: 9200 Watson Road, Suite 200, St. Louis, MO 63126

Installation Name: Roeslein Alternative Energy of Missouri, LLC – Somerset

Installation Address: 11337 Buck Avenue, Powersville, MO 64672

Location Information: Mercer County (S5, T66N, R22W)

Application for Authority to Construct was made for:

The installation of a biogas collection, cleaning, and compression system on seventeen swine waste lagoons at Murphy Brown of Missouri's Somerset Farm. This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

Standard Conditions (on reverse) are applicable to this permit.

Standard Conditions (on reverse) and Special Conditions are applicable to this permit.



Director or Designee
Department of Natural Resources

August 11, 2020
Effective Date

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Enforcement and Compliance Section of the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Enforcement and Compliance Section of the Department's Air Pollution Control Program of the anticipated date of startup of this (these) air contaminant source(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department's regional office responsible for the area within which you are located within 15 days after the actual startup of this (these) air contaminant source(s).

A copy of the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department's personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant source(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit using the contact information below.

Contact Information:
Missouri Department of Natural Resources
Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102-0176
(573) 751-4817

The regional office information can be found at the following website:
<http://dnr.mo.gov/regions/>

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted to the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (3)(E). "Conditions required by permitting authority."

Roeslein Alternative Energy of Missouri, LLC – Somerset
Mercer County (S5, T66N, R22W)

1. SO_x Emission Limitation and H₂S Sampling Requirements
 - A. Roeslein Alternative Energy, LLC shall emit less than 40.0 tons of SO_x in any consecutive 12-month period from the thermal oxidizer. All actual emissions, including startup, shutdown, and malfunction (SSM) emissions, shall be included in this limit.
 - B. Roeslein Alternative Energy, LLC shall sample the biogas to determine the H₂S concentration, which shall not exceed 0.23% by volume.
 - C. Roeslein Alternative Energy, LLC shall demonstrate compliance with Special Conditions 1.A and 1.B by installing a gas flow meter and sampling the H₂S concentration of the biogas. The flow meter shall continuously measure the flow rate (scfm) of biogas being routed to the biogas upgrading system and shall have the ability to show total flow rate across a set time period. The biogas H₂S concentration (ppmv) shall be sampled prior to the biogas upgrading system inlet at least once per calendar month, with no two tests occurring within 14 days of one another. No H₂S sampling is required during the months of December through April, and the biogas flow rate during this time is assumed to be negligible.
 - D. Sampling shall be performed using an approved EPA method or a method approved by the Air Pollution Control Program, including the use of a Landtec Biogas 5000 or equivalent unit. Roeslein Alternative Energy, LLC shall submit a testing protocol to the Air Pollution Control Program at least 14 days before the first test for approval. All subsequent tests shall be performed in accordance with the approved testing protocol.
 - E. The measured flow rates and H₂S concentrations shall be recorded in Attachment A, which will be used to calculate the variable SO_x emission rate to indicate compliance with Special Condition 1.A.
 - F. If any of the sampling results show an exceedance of the limit in Special Condition 1.A, Roeslein Alternative Energy, LLC shall submit ambient impact modeling results to show that the potential SO_x emissions do not exceed the NAAQS. Roeslein Alternative Energy, LLC shall also submit an emissions analysis to show that the potential SO_x emissions do not exceed the major source level.

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- G. If Roeslein Alternative Energy, LLC cannot show compliance with Special Condition 1.F, they shall contact the Air Pollution Control Program for further instructions.
 - H. Roeslein Alternative Energy, LLC may petition the Air Pollution Control Program to reduce the H₂S sampling frequency if at least one year of biogas sample collections have been performed and compliance has continually been demonstrated with Special Condition 1.
2. Control Device Requirement – Thermal Oxidizer
- A. Roeslein Alternative Energy, LLC shall control emissions from the biogas upgrading system using a thermal oxidizer, as specified in the permit application.
 - B. The thermal oxidizer shall be operated at all times when the biogas upgrading system is operating and producing tail gas. During periods of maintenance or malfunction, the tail gas shall be diverted to a covered recycle gas lagoon.
 - C. The operating temperature of the thermal oxidizer shall be continuously monitored and recorded while operating. The operating temperature shall be maintained at a minimum of 1,400°F (averaged every minute).
 - D. The thermal oxidizer shall be operated and maintained in accordance with the manufacturer's specifications. A copy of the manufacturer's performance warranty shall be kept on site.
 - E. Roeslein Alternative Energy, LLC shall maintain an operating and maintenance log for the thermal oxidizer, which shall include the following:
 - 1) Incidents of malfunction with impact on emissions, duration of event, probable cause, and corrective actions;
 - 2) Maintenance activities with inspection schedule, repair actions, replacements, etc.
3. Operational Requirement – Biogas Venting
- A. Roeslein Alternative Energy, LLC shall divert all generated biogas to the biogas upgrading system and shall not vent biogas to the atmosphere, except during periods of maintenance or malfunction.
 - B. During periods of maintenance or malfunction, Roeslein Alternative Energy, LLC shall not vent more than 80 MMscf of biogas, in any consecutive 12-month period.

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- C. Roeslein Alternative Energy, LLC shall demonstrate compliance with Special Condition 3.B by keeping a record of the amount of biogas vented to the atmosphere. These records shall include, at a minimum, the following information:
 - 1) Installation name & ID number
 - 2) Permit number
 - 3) Date of biogas venting period (month, day, year)
 - 4) Duration of biogas venting period (hours)
 - 5) Method for calculating amount of biogas vented (biogas generation rate, total lagoon volume, etc.)
 - 6) Reason for venting (upgrading system maintenance, lagoon cover rupture, etc.)
 - 7) 12-month rolling total amount of biogas vented (MMscf)
 - 8) Indication of compliance with Special Condition 3.B

- 4. Record Keeping and Reporting Requirements
 - A. Roeslein Alternative Energy, LLC shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.

 - B. Roeslein Alternative Energy, LLC shall report to the Air Pollution Control Program's Compliance/Enforcement Section at P.O. Box 176, Jefferson City, MO 65102 or by email at AirComplianceReporting@dnr.mo.gov, no later than 10 days after the end of the month during which any record required by this permit shows an exceedance of a limitation imposed by this permit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (5) REVIEW

Project Number: 2020-02-025
Installation ID Number: 129-0019
Permit Number: 082020-004

Installation Address:

Roeslein Alternative Energy of Missouri, LLC – Somerset
11337 Buck Avenue
Powersville, MO 64672
Mercer County (S5, T66N, R22W)

Parent Company:

Roeslein Alternative Energy, LLC
9200 Watson Road, Suite 200
St. Louis, MO 63126

REVIEW SUMMARY

- Roeslein Alternative Energy, LLC has applied for authority to install a biogas collection, cleaning, and compression system on seventeen swine waste lagoons at Murphy Brown of Missouri's Somerset Farm.
- The application was deemed complete on March 20, 2020.
- HAP emissions are expected from the proposed equipment. HAPs of concern from this process include the products of biogas and propane combustion.
- None of the NSPS, NESHAPs, or current MACT regulations apply to the installation.
- A thermal oxidizer is being used to control hydrogen sulfide (H₂S) emissions from the biogas.
- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of all pollutants are conditioned below de minimis levels.
- This installation is located in Mercer County, an attainment/unclassifiable area for all criteria pollutants.
- This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.
- Ambient air quality modeling was not performed since the controlled potential emissions of all pollutants are below de minimis levels.

- H₂S sampling is required as a part of this permit.
- No Operating Permit is required for this installation.
- Approval of this permit is recommended with special conditions.

INSTALLATION/PROJECT DESCRIPTION

In February 2016, Roeslein Alternative Energy, LLC was issued Construction Permit No. 022016-006 for the installation of impermeable covers and flare skids on seventeen lagoons at Murphy Brown of Missouri's Somerset Farm. This project, however, was never actually constructed, causing the construction permit to no longer be active.

Roeslein Alternative Energy, LLC is now proposing to revive the project, with some changes from the original application. A biogas collection, cleaning, and compression system will be installed on the seventeen swine waste lagoons at Murphy Brown of Missouri's Somerset Farm. Impermeable geomembrane gas collection covers will first be installed over each lagoon, which will provide an oxygen deficient environment to facilitate anaerobic digestion of the waste and produce biogas. The generated biogas will then be collected and sent to a biogas upgrading system, where the methane (CH₄) will be separated out and compressed as pipeline grade renewable natural gas (RNG). The biogas upgrading system will include a biogas compression system, three stages of separation membranes, and H₂S polishing beds. A thermal oxidizer (EP-01), supplemented by propane, will be used to combust the separated tail gas stream. In the event of a malfunction with the thermal oxidizer, the tail gas will be diverted to a covered recycle gas lagoon. Any non-pipeline grade product gas will be diverted to the nearest lagoon for reprocessing.

EMISSIONS/CONTROLS EVALUATION

Lagoon biogas generation depends on ambient temperature, swine herd population, animal weight, and animal feed composition; therefore, the generation rate can vary seasonally. Biogas generation usually occurs between April and November, with peak generation occurring May through July. The composition of the biogas is relatively constant year round but can fluctuate slightly.

Roeslein Alternative Energy, LLC has performed extensive biogas sampling at various other sites similar to Somerset Farm (Installation IDs: 075-0026, 211-0024 & 211-0026) for the past several years. This has allowed for the development of refined biogas composition, generation, and emission parameters that are generally consistent for all of the hog farms.

Considering the variable generation rate, it was conservatively calculated that each lagoon generates 19,224,000 cubic feet of biogas annually. The biogas will contain a maximum of 0.23% H₂S and 61% CH₄, with the rest being CO₂ and other trace gases.

Particulate and CO emissions from the combustion of tail gas in the thermal oxidizer were calculated using emission factors taken from AP-42 Section 2.4 *Municipal Solid Waste Landfills, Draft* (October 2008). SO_x emissions were calculated using mass balances, assuming that all H₂S contained in the tail gas is oxidized to SO_x. NO_x can be formed by the oxidation of ammonia (NH₃) contained in the tail gas or by the combustion of partially oxidized compounds/atmospheric nitrogen in the thermal oxidizer. NO_x emissions from NH₃ were calculated using mass balances, assuming a maximum NH₃ concentration of 0.08% in the tail gas. This value represents the highest sample recorded at a similar site (075-0026). NO_x emissions from combustion were calculated using information provided by the thermal oxidizer manufacturer. VOC and HAP emissions from the combustion of tail gas were considered to be negligible.

The impermeable lagoon covers are not expected to capture 100% of the generated biogas. It was assumed that only 98% of the biogas would be captured, which is the efficiency given in 40 CFR 98, Subpart JJ – *Manure Management*, Table JJ-6. Biogas will be voluntarily vented to the atmosphere only as a last resort following a catastrophic malfunction, such as a lagoon cover rupture. Biogas venting is limited to 80 MMscf annually, which corresponds to an H₂S emission rate of approximately 9.0 tons per year. This is equal to the H₂S de minimis level minus a 10% factor of safety.

Potential emissions from the combustion of propane used to assist the thermal oxidizer were calculated using emission factors taken from AP-42 Section 1.5 *Liquefied Petroleum Gas Combustion* (July 2008); however, potential SO_x emissions were considered negligible due to the low sulfur content of the fuel.

Table 1 provides an emissions summary for this project. Because this is technically a new installation, existing potential emissions and existing actual emissions do not exist. Uncontrolled potential emissions of the project represent the potential of the new equipment, assuming continuous operation (8,760 hours per year) with no controls. Controlled potential emissions of the project account for the use of the thermal oxidizer.

Table 1: Emissions Summary (tons per year)

| Pollutant | Regulatory <i>De Minimis</i> Levels | Existing Potential Emissions | Existing Actual Emissions | Uncontrolled Potential Emissions of the Project | Controlled Potential Emissions of the Project |
|-------------------|-------------------------------------|------------------------------|---------------------------|---|---|
| PM | 25.0 | N/A | N/A | N/A | 0.17 |
| PM ₁₀ | 15.0 | N/A | N/A | N/A | 0.17 |
| PM _{2.5} | 10.0 | N/A | N/A | N/A | 0.17 |
| SO _x | 40.0 | N/A | N/A | N/A | <40.0 |
| NO _x | 40.0 | N/A | N/A | N/A | 6.21 |
| VOC | 40.0 | N/A | N/A | N/D | 0.21 |
| CO | 100.0 | N/A | N/A | N/A | 1.46 |
| H ₂ S | 10.0 | N/A | N/A | 36.83 | <9.0 |
| Total HAPs | 25.0 | N/A | N/A | N/D | 0.12 |

N/A = Not Applicable; N/D = Not Determined

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of all pollutants are conditioned below de minimis levels.

APPLICABLE REQUIREMENTS

Roeslein Alternative Energy, LLC shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved.

GENERAL REQUIREMENTS

- *Start-Up, Shutdown, and Malfunction Conditions*, 10 CSR 10-6.050
- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110
 - Per 10 CSR 10-6.110(4)(B)2.B(II) and (4)(B)2.C(II), a full EIQ is required for the first full calendar year the new equipment is in operation.
- *Restriction of Emission of Odors*, 10 CSR 10-6.165
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170
- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220

SPECIFIC REQUIREMENTS

- *Restriction of Emission of Sulfur Compounds*, 10 CSR 10-6.260
- *Control of Sulfur Dioxide Emissions*, 10 CSR 10-6.261

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, it is recommended that this permit be granted with special conditions.

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated January 10, 2020, received February 18, 2020, designating Roeslein & Associates, Inc. as the owner and operator of the installation.

Attachment A: SO_x Compliance Worksheet

Roeslein Alternative Energy, LLC
 Mercer County (S5, T66N, R22W)
 Project Number: 2020-02-025
 Installation Number: 129-0019
 Permit Number: 082020-004

This sheet covers the period from _____ to _____.
 (month, year) (month, year)

| ¹ Date of Previous H ₂ S Sample (Month, Day) | ² Date of Current H ₂ S Sample (Month, Day) | ³ Total Gas Flow Rate in Sample Period (MMscf) | ⁴ Measured H ₂ S Concentration (ppmv) | Emission Factor (ton SO _x /MMscf H ₂ S) | ⁵ Monthly SO _x Emissions (tons) | ⁶ Monthly SSM SO _x Emissions (tons) | ⁷ Total Monthly SO _x Emissions (tons) | ⁸ 12-Month Rolling Total SO _x Emissions (tons) |
|--|---|---|---|---|---|---|---|--|
| <i>Example</i> | <i>Example</i> | <i>35.00</i> | <i>1900</i> | 7.432×10^{-5} | <i>4.94</i> | <i>N/A</i> | <i>4.94</i> | <i>34.60</i> |
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¹Enter the date the previous month's H₂S sample was taken.
²Enter the date the current month's H₂S sample was taken.
³Enter the total flow rate to the biogas upgrading system measured between the previous H₂S sample and the current H₂S sample.
⁴Enter the H₂S concentration measured for the current month.
⁵Calculate by multiplying the total gas flow rate by the measured H₂S concentration and multiplying by the emission factor.
⁶Enter the monthly startup, shutdown, and malfunction (SSM) SO_x emissions, including excess emissions as reported to the Air Pollution Control Program's Compliance/Enforcement Section.
⁷Calculate by adding the monthly SO_x emissions to the monthly SSM SO_x emissions.
⁸Calculate by adding the current total monthly SO_x emissions to the sum of the previous 11 months' total monthly SO_x emissions (SO_x emissions from the months of December through April are assumed to be negligible). A total of less than 40.0 tons of SO_x per consecutive 12-month period is required for compliance with Special Condition 1.

APPENDIX A

Abbreviations and Acronyms

| | |
|--|--|
| % percent | Mgal 1,000 gallons |
| °F degrees Fahrenheit | MW megawatt |
| acfm actual cubic feet per minute | MHDR maximum hourly design rate |
| BACT Best Available Control Technology | MMBtu Million British thermal units |
| BMPs Best Management Practices | MMCF million cubic feet |
| Btu British thermal unit | MSDS Material Safety Data Sheet |
| CAM Compliance Assurance Monitoring | NAAQS National Ambient Air Quality Standards |
| CAS Chemical Abstracts Service | NESHAPs National Emissions Standards for Hazardous Air Pollutants |
| CEMS Continuous Emission Monitor System | NO_xnitrogen oxides |
| CFR Code of Federal Regulations | NSPS New Source Performance Standards |
| CO carbon monoxide | NSR New Source Review |
| CO₂ carbon dioxide | PMparticulate matter |
| CO_{2e} carbon dioxide equivalent | PM_{2.5} particulate matter less than 2.5 microns in aerodynamic diameter |
| COMS Continuous Opacity Monitoring System | PM₁₀ particulate matter less than 10 microns in aerodynamic diameter |
| CSR Code of State Regulations | ppm parts per million |
| dscf dry standard cubic feet | PSD Prevention of Significant Deterioration |
| EIQ Emission Inventory Questionnaire | PTE potential to emit |
| EP Emission Point | RACT Reasonable Available Control Technology |
| EPA Environmental Protection Agency | RAL Risk Assessment Level |
| EU Emission Unit | SCC Source Classification Code |
| fps feet per second | scfm standard cubic feet per minute |
| ft feet | SDS Safety Data Sheet |
| GACT Generally Available Control Technology | SIC Standard Industrial Classification |
| GHG Greenhouse Gas | SIP State Implementation Plan |
| gpm gallons per minute | SMAL Screening Model Action Levels |
| gr grains | SO_x sulfur oxides |
| GWP Global Warming Potential | SO₂ sulfur dioxide |
| HAP Hazardous Air Pollutant | SSM Startup, Shutdown & Malfunction |
| hr hour | tph tons per hour |
| hp horsepower | tpy tons per year |
| lb pound | VMT vehicle miles traveled |
| lbs/hr pounds per hour | VOC Volatile Organic Compound |
| MACT Maximum Achievable Control Technology | |
| µg/m³ micrograms per cubic meter | |
| m/s meters per second | |



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

August 11, 2020

Gary Freymiller
Project Development Manager
Roeslein Alternative Energy, LLC – Somerset
9200 Watson Road, Suite 200
St. Louis, MO 63126

RE: New Source Review Permit - Project Number: 2020-02-025

Dear Gary Freymiller:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions and your new source review permit application is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: <http://dnr.mo.gov/regions/>. The online CAV request can be found at <http://dnr.mo.gov/cav/compliance.htm>.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission,



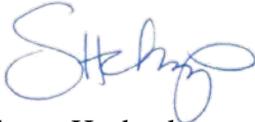
Gary Freymiller
Page Two

whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.aa.mo.gov/ahc.

If you have any questions regarding this permit, please contact the Air Pollution Control Program at P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Susan Heckenkamp
New Source Review Unit Chief

SH:rsa

Enclosures

c: Kansas City Regional Office
PAMS File: 2020-02-025

Permit Number: 082020-004