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: 02 2 0 1 7 - 0 0 5  
Project Number: 2016-11-053
Installation Number: 161-0068

Parent Company: Phelps County Sheriff's Department
Parent Company Address: 500 West Second Street, Rolla, MO 65401
Installation Name: Phelps County Sheriff Incinerator
Installation Address: Baptist Camp Rd, Yancy Mills, MO 65550
Location Information: Phelps County, S11, T37N, R8E

Application for Authority to Construct was made for:
The installation of a contraband and illicit substance incinerator. 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.

Prepared by
Hans Robinson
New Source Review Unit

Director or Designee
Department of Natural Resources

FEB 14 2017
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 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 (12)(A)10. “Conditions required by permitting authority.”

Phelps County Sheriff Department
Phelps County, S11, T37N, R8E

1. Process Requirements for the Incinerator (EU-01)
   A. Phelps County Sheriff’s Department shall burn exclusively contraband or prohibited goods such as illegal drugs as defined in Chapter 195 Drug Regulations Section 195.017. Revised, updated, or corrected sections of Chapter 195 that define illegal drugs are also authorized for incineration.
   B. Phelps County Sheriff’s Department may incinerate contraband and illicit materials provided by separate law enforcement agencies so long as the TSM-50 incinerator is supervised, operated, and maintained by personnel employed by the Phelps County Sheriff’s Department.
   C. Phelps County Sheriff’s Department shall maintain the temperature in the final (second) combustion chamber at or above 1600 degrees Fahrenheit. Compliance shall be determined by recording the temperature per batch in Attachment A or by the operation of a continuous chart or electronic recorder.
   D. The incinerator (EU-01) shall have opacity of less than ten percent (10%) at all times, as determined by a certified visible emission observer performing EPA Reference Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. This includes during stirring of the fire bed in the incinerator. Opacity less than 10 percent does not contain soot or black smoke.
   E. Phelps County Sheriff’s Department shall use only ultra-low sulfur diesel fuel with sulfur content no greater than 15 ppm.
   F. Phelps County Sheriff’s Department shall maintain an accurate record of each batch incinerated that will include the following:
      1) Item combusted,
      2) the date combusted,
      3) a court case or other criminal identification marker associated with the item combusted,
      4) the temperature of the exhaust,
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

5) observation that the exhaust is clean of soot and less than ten percent opacity;
6) the approximate weight of the items incinerated, and
7) fuel type.

G. The incinerator shall be operated only if it is in sound mechanical condition. The entire unit should be free from holes, dents and damage and the door/or lid seals shall function as designed. Compliance shall be determined by monthly inspection of the unit and a log of the inspection shall be kept by the Phelps County Sheriff's Department. The inspection shall include the name of the person making the inspection, any repair actions, and replacements parts, etc.

H. Phelps County Sheriff's department shall only incinerate contraband at the listed installation address (Baptist Camp Road, Yancy Mills, MO 65550) as stated in the permit application. However, the portable TSM-50 incinerator may be stored but not operated at a separate location from the installation address. Phelps County Sheriff's Department must receive approval from the Department of Natural Resources before operating the TSM-50 at a different location than the installation address.

I. Attachment A or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 1.A. through 1.E.

2. Restrictions
Phelps County Sheriff's Department shall not incinerate any sharps that have been used in animal or human patient care or treatment, for illegal drug use, or in medical, research, or industrial laboratories, including hypodermic needles, syringes (with or without the attached needle), pasteur pipettes, scalpel blades, blood vials, needles with attached tubing, and culture dishes (regardless of presence of infectious agents). Also included are other types of broken or unbroken glassware that were in contact with infectious agents, such as used slides and cover slips.

3. Restriction of Odors
If a continued situation of verified nuisance odors exists in violation of 10 CSR 10-6.165, the Director may require through written notice that Phelps County Sheriff's Department submits within ten days a corrective action plan adequate to timely and significantly mitigate the odors. Phelps County Sheriff's Department shall implement any such plan immediately upon its approval by the Director. Failure to either submit or implement such a plan shall be in violation of thispermit.
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

4. Record Keeping and Reporting Requirements
   A. Phelps County Sheriff's Department 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. Phelps County Sheriff's Department shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten 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: 2016-11-053
Installation ID Number: 161-0068
Permit Number: 022017-005

Installation Address:
Phelps County Sheriff Incinerator
Baptist Camp Rd
Yancy Mills, MO 65550

Parent Company:
Phelps County Sheriff's Department
500 West Second Street
Rolla, MO 65401

Phelps County, S11, T37N, R8E

REVIEW SUMMARY

- Phelps County Sheriff Incinerator has applied for authority to install a waste incineration unit to be used for the destruction of confiscated drugs and contraband.

- The application was deemed complete on 12/5/2016.

- HAP emissions are not expected from the proposed equipment.

- None of the New Source Performance Standards (NSPS) apply to the installation. 40 CFR 60 Subpart EEEE, "Standards of Performance for Other Solid Waste Incineration Units for Which Construction is Commenced after December 9, 2004, or for Which Modification or Reconstruction is Commenced on or after June 16, 2006" does not apply to this unit. This unit is exempted as it is owned by a government agency and is restricted to burning only contraband or prohibited goods.

- None of the NESHAPs apply to this installation. None of the currently promulgated MACT regulations apply to the proposed equipment.

- An afterburner, designated as the second chamber of the incinerator, is used to control PM, PM10, PM2.5, VOC and HAPs emissions.

- 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 below de minimis levels.

- This installation is located in Phelps County, an attainment 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 potential emissions of the application are below de minimis levels.

- Emissions testing is not required for the equipment as a part of this permit.

- No Operating Permit is required for this installation.

- This unit is considered an institutional waste incinerator.

- Approval of this permit is recommended with special conditions.

**INSTALLATION DESCRIPTION**

A two chamber portable TSM-50 incinerator will be used to destroy exclusively illegal drugs, contraband, or prohibited goods as defined in NSPS EEEE. Although the incinerator is portable, it may not operate or incinerate contraband at any location besides the installation address. However, the portable TSM-50 incinerator may be moved from the installation address for storage (see Special Condition 1.G). The Phelps County Sheriff’s Department will operate the incinerator at or above 1600 °F (with a maximum design capacity of 2550 °F) in accordance with Special Condition 1.B. The unit can burn only ultra-low sulfur diesel fuel. The burn rating for the TSM-50 is 110 pounds per hour. The unit can be reloaded with contraband or prohibited goods when the unit’s second chamber is maintained at or above 1600 °F.

This unit can burn or incinerate those items that are in the possession of the Phelps County Sheriff’s Department that are considered to be illegal drugs as defined in Chapter 195 Drug Regulations Section 195.017. Revised, updated, or corrected sections of Chapter 195 Drug Regulations that define illegal drugs are authorized for incineration. In addition, items that are found to be in their possession by legal court action or due process of the legal system are considered to be illegal, contraband, or prohibited goods.

The unit is not authorized to cremate non-infectious human bodies and body parts. It is not authorized to incinerate medical/infectious waste as defined in the Code of Federal Regulations, 40 CFR 60.51, *Standards of Performance for New Stationary Sources, Subpart Ec—"Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996."* The rule defines medical/infectious waste as:

*Medical/infectious waste* means any waste generated in the diagnosis, treatment, or immunization of human beings or animals, in research pertaining thereto, or in the production or testing of biologicals that are listed in paragraphs (1) through (7) of this definition. The definition of medical/infectious waste does not include hazardous waste identified or listed under the regulations in part 261 of this chapter; household waste, as defined in §261.4(b)(1) of this chapter; ash from incineration of medical/infectious waste, once the incineration process has been completed; human corpses, remains,
and anatomical parts that are intended for interment; and domestic sewage materials identified in §261.4(a)(1) of this chapter.

(1) Cultures and stocks of infectious agents and associated biologicals, including: cultures from medical and pathological laboratories; cultures and stocks of infectious agents from research and industrial laboratories; wastes from the production of biologicals; discarded live and attenuated vaccines; and culture dishes and devices used to transfer, inoculate, and mix cultures.

(2) Human pathological waste, including tissues, organs, and body parts and body fluids that are removed during surgery or autopsy, or other medical procedures, and specimens of body fluids and their containers.

(3) Human blood and blood products including:
   (i) Liquid waste human blood;
   (ii) Products of blood;
   (iii) Items saturated and/or dripping with human blood; or
   (iv) Items that were saturated and/or dripping with human blood that are now caked with dried human blood; including serum, plasma, and other blood components, and their containers, which were used or intended for use in either patient care, testing and laboratory analysis or the development of pharmaceuticals. Intravenous bags are also included in this category.

(4) Sharps that have been used in animal or human patient care or treatment or in medical, research, or industrial laboratories, including hypodermic needles, syringes (with or without the attached needle), pasteur pipettes, scalpel blades, blood vials, needles with attached tubing, and culture dishes (regardless of presence of infectious agents). Also included are other types of broken or unbroken glassware that were in contact with infectious agents, such as used slides and cover slips.

(5) Animal waste including contaminated animal carcasses, body parts, and bedding of animals that were known to have been exposed to infectious agents during research (including research in veterinary hospitals), production of biologicals or testing of pharmaceuticals.

(6) Isolation wastes including biological waste and discarded materials contaminated with blood, excretions, exudates, or secretions from humans who are isolated to protect others from certain highly communicable diseases, or isolated animals known to be infected with highly communicable diseases.

(7) Unused sharps including the following unused, discarded sharps: hypodermic needles, suture needles, syringes, and scalpel blades.

In order to be exempt from NSPS subpart EEEE, this unit must be owned by a government agency such as the police or similar agency. It can only destroy illegal or prohibited goods such as illegal drugs, or agricultural food products that cannot be
transported into the country or across state lines. The unit is excluded from the subpart and is not considered an OSWI unit subject to the Subpart EEEE. The exclusion does not apply to items confiscated by private, industrial, or commercial entities.

No permits have been issued to the Phelps County Sheriff's Department from the Air Pollution Control Program.

EMISSIONS/CONTROLS EVALUATION

The emission factors used in this analysis were obtained from the Environmental Protection Agency (EPA) document AP-42, Compilation of Air Pollutant Emission Factors, Fifth Edition and WebFIRE. The emission rates for PM, PM$_{10}$, and PM$_{2.5}$ for drug incineration (not including diesel combustion emissions) are from Chapter 2.3-2 Medical Waste Incineration, July 1993. No other emissions were calculated for the incineration of contraband (i.e., emissions specifically associated with combusting drugs, not including the combustion of diesel). MHDR for the incinerator is 110 lb/hr of contraband. SO$_x$ emission factors were based on ultra-low sulfur diesel fuel (15 ppm sulfur). SO$_x$, NO$_x$, VOC, and CO emissions factors for diesel combustion come from WebFIRE, SCC 1-02-004-02 industrial boiler no 2 distillate oil 10-100 MMBtu/hr. HAPs emission rates were only considered from diesel fuel combustion since no reliable method exists for calculating HAP emissions from drug incineration. Thus, HAP emissions were calculated as a combination of WebFIRE SCC codes 1-01-004-01 electric generation, no. 5 oil and SCC 1-02-005-02 industrial boiler no. 2 distillate oil. The TSM-50 incinerator will have two chambers; a primary chamber and an afterburner chamber. Both chambers will have single stage burners. The combined heat input of both burners will be 1.5 MMBtu of diesel fuel per hour (roughly 0.75 MMBtu/hour of diesel each). Thus, each burner has an MHDR of 5.4 gallons/hour of diesel fuel. Diesel fuel will be supplied by a 45 gallon Diesel Fuel Tank that will be stationed on site. Fugitive emissions for this diesel tank were not evaluated. PM, PM$_{10}$, and PM$_{2.5}$ emissions for contraband incineration and for diesel combustion were added in the table below. Potential emissions of the application represent the potential of the new equipment, assuming continuous operation (8760 hours per year). The following table provides an emissions summary for this project.

Table 2: Emissions Summary (tpy)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Regulatory De Minimis Levels</th>
<th>Existing Potential Emissions</th>
<th>Existing Actual Emissions (N/A EQ)</th>
<th>Potential Emissions of the Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>25.0</td>
<td>N/A</td>
<td>N/A</td>
<td>1.24</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>15.0</td>
<td>N/A</td>
<td>N/A</td>
<td>1.24</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>10.0</td>
<td>N/A</td>
<td>N/A</td>
<td>1.20</td>
</tr>
<tr>
<td>SO$_x$</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>0.01</td>
</tr>
<tr>
<td>NO$_x$</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>0.97</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>0.01</td>
</tr>
<tr>
<td>CO</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>0.24</td>
</tr>
<tr>
<td>HAPs</td>
<td>10.0/25.0</td>
<td>N/A</td>
<td>N/A</td>
<td>0.00</td>
</tr>
</tbody>
</table>

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 below de minimis levels.

APPLICABLE REQUIREMENTS

Phelps County Sheriff Incinerator 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 equipment (or modifications) approved by this permit are in operation.

- **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**

- **Restriction of Emission of Odors, 10 CSR 10-6.165**

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 November 16, 2016, received November 23, 2016, designating Phelps County Sheriff's Department as the owner and operator of the installation.

- Matthews Environmental Solutions' Email correspondence dated 12/6/2016 which provide burn temperature and burner MHDR.
attachment a – burned items tracking sheet

phelps county sheriff’s department
phelps county, s, tn, rw
project number: 2016-11-053
installation id number: 161-0068
permit number: 022017-005

this sheet covers the period from __________ to __________ (month, year) (month, year).

<table>
<thead>
<tr>
<th>date</th>
<th>item combusted</th>
<th>illegal drugs, contraband or other prohibited goods?</th>
<th>court case number or other criminal identification marker</th>
<th>temperature in secondary chamber while incinerating (°f) and stack gas opacity in percent</th>
<th>approximate weight of item in pounds</th>
<th>only diesel fuel used</th>
</tr>
</thead>
<tbody>
<tr>
<td>example</td>
<td>sudafed cold tablets</td>
<td>yes</td>
<td>case # 57</td>
<td>1600</td>
<td>&lt;10</td>
<td>5</td>
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<tr>
<td>example</td>
<td>chapter 195 drug regulations section 195:017 item</td>
<td>yes</td>
<td>items from investigation 9657</td>
<td>2550</td>
<td>&lt;10</td>
<td>2</td>
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</table>

note 1: incineration of items that are not illegal drugs, contraband or other prohibited goods voids the exemption in subpart eeee.

note 2: the incinerator (eu-01) shall have opacity of less than ten percent (10%) at all times, as determined by a certified visible emission observer performing epa reference method 9, visual determination of the opacity of emissions from stationary sources.
APPENDIX A

Abbreviations and Acronyms

% ............ percent
°F .......... degrees Fahrenheit
acfm ....... actual cubic feet per minute
BACT ...... Best Available Control Technology
BMPs ...... Best Management Practices
Btu........ British thermal unit
CAM ...... Compliance Assurance Monitoring
CAS ....... Chemical Abstracts Service
CEMS ...... Continuous Emission Monitor System
CFR ........ Code of Federal Regulations
CO .......... carbon monoxide
CO2 ......... carbon dioxide
CO2e ...... carbon dioxide equivalent
COMS ..... Continuous Opacity Monitoring System
CSR ........ Code of State Regulations
dscf ........ dry standard cubic feet
EIQ .......... Emission Inventory Questionnaire
EP .......... Emission Point
EPA ...... Environmental Protection Agency
EU .......... Emission Unit
fps .......... feet per second
ft ............ feet
GACT ..... Generally Available Control Technology
GHG ......... Greenhouse Gas
gpm ........ gallons per minute
gr .......... grains
GWP ...... Global Warming Potential
HAP ...... Hazardous Air Pollutant
hr .......... hour
hp .......... horsepower
lb ........... pound
lbs/hr ....... pounds per hour
MACT ...... Maximum Achievable Control Technology
µg/m³ ...... micrograms per cubic meter
m/s ........ meters per second
Mgal ....... 1,000 gallons
MW .......... megawatt
MHDR ....... maximum hourly design rate
MMBtu .... Million British thermal units
MMCF ...... million cubic feet
MSDS ...... Material Safety Data Sheet
NAAQS .. National Ambient Air Quality Standards
NESHAPs National Emissions Standards for Hazardous Air Pollutants
NOx ........ nitrogen oxides
NSPS ...... New Source Performance Standards
NSR ........ New Source Review
PM .......... particulate matter
PM2.5 ...... particulate matter less than 2.5 microns in aerodynamic diameter
PM10 ...... particulate matter less than 10 microns in aerodynamic diameter
ppm ...... parts per million
PSD ........ Prevention of Significant Deterioration
PTE ....... potential to emit
RACT .... Reasonable Available Control Technology
RAL ........ Risk Assessment Level
SCC .......... Source Classification Code
scfm ...... standard cubic feet per minute
SDS .......... Safety Data Sheet
SIC ......... Standard Industrial Classification
SIP .......... State Implementation Plan
SMAL ...... Screening Model Action Levels
SO2 ...... sulfur dioxide
tph .......... tons per hour
tpy .......... tons per year
VMT ........ vehicle miles traveled
VOC ......... Volatile Organic Compound
## Emissions Table

**Diesel Combustion**

### PM10 and PM2.5 Emission

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>CAS Number</th>
<th>HAP</th>
<th>Emission Factor</th>
<th>Emission Factor Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM Filterable</td>
<td>2</td>
<td>2.3354E-07</td>
<td>0.10</td>
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</tr>
<tr>
<td>PM10</td>
<td>none</td>
<td>0.0221</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PM2.5</td>
<td>none</td>
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<td></td>
</tr>
<tr>
<td>NOx</td>
<td>none</td>
<td>0.0172</td>
<td></td>
<td></td>
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<tr>
<td>SO2</td>
<td>none</td>
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<td></td>
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<tr>
<td>NMOCs</td>
<td>none</td>
<td>0.0214</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>none</td>
<td>0.0002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combined HAPs</td>
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<td>0.0009</td>
<td></td>
<td></td>
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</tbody>
</table>

### Emission Source

<table>
<thead>
<tr>
<th>Source</th>
<th>Available Pollutant (lb/hr)</th>
<th>Control Device</th>
<th>PTE (lb/hr)</th>
<th>PTE (lbs)</th>
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<tr>
<td>SCC 1-02-005-02 Industrial boiler no 2</td>
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<td>none</td>
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<td>Distillate oil</td>
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<tr>
<td>10-100 MMBtu/hr</td>
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<td>none</td>
<td>0.0172</td>
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<td>MMBtu/hr</td>
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<tr>
<td>MMBtu/hr</td>
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<tr>
<td>MMBtu/hr</td>
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<td>0.01</td>
</tr>
<tr>
<td>MMBtu/hr</td>
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<td>0.0009</td>
<td>0.00</td>
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<tr>
<td>MMBtu/hr</td>
<td>4.97E-05</td>
<td>none</td>
<td>4.97E-05</td>
<td>2.18E-04</td>
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### PM, PM10, and PM2.5 Emission Factors

<table>
<thead>
<tr>
<th>PM10 Emission Units</th>
<th>PM2.5 Emission Units</th>
</tr>
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<tbody>
<tr>
<td>2.3354E-07 pm</td>
<td>2.3354E-07 pm</td>
</tr>
<tr>
<td>0.10</td>
<td>0.10</td>
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</table>

### Reference

ULSD Diesel H/S reduced 1.1% on a volume basis from LSO. Reference: USEPA "The Transition to Ultra-Low-Sulfur Diesel Fuel: Effects on Prices and Supply" Report #: SR-CTAF/2001-01 PM, PM10, and PM2.5 emission factors cited from AP-42 Table 1.3-1, 1.3-2, 1.3-6 lor industrial boiler May 2013.

### Emission factor for Benz(b)fluoranthene conservatively applied to (b) and (k)

ULSD Diesel H/S reduced 1.1% on a volume basis from LSO. Reference: USEPA "The Transition to Ultra-Low-Sulfur Diesel Fuel: Effects on Prices and Supply" Report #: SR-CTAF/2001-01 PM, PM10, and PM2.5 emission factors cited from AP-42 Table 1.3-1, 1.3-2, 1.3-6 lor industrial boiler May 2013.

### Table A-1, Jan 2014

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### Notes

- **NSPS 0a**: defined as all fires
- **Initial Notification**: record heat input usage per boiler and sulfur content

### MACT B* defined as all fires, new, every other year tune-up as the CO management practice standard

- **PM limit of 0.03 lb/MMBtu heat input**
- **AP-42 PM emission factors in compliance with the limit. They equate to:**
- **Initial determination test, and every 3 years after**
- **monthly fuel mix records**

### Table 1.3-1, 1.3-2, 1.3-6

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FEB 14 2017

Mr. Scott Jarrett
Sheriff
Phelps County Sheriff Incinerator
500 West Second Street
Rolla, MO 65401

RE: New Source Review Permit - Project Number: 2016-11-053

Dear Mr. Jarrett:

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, 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.oa.mo.gov/ahc.
If you have any questions regarding this permit, please do not hesitate to contact Hans Robinson at the Department of Natural Resources’ Air Pollution Control Program, 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

[Signature]

Susan Heckenkamp
New Source Review Unit Chief

Enclosures

c: Southeast Regional Office
   PAMS File: 2016-11-053

Permit Number: 02 2017 - 005