

**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: **032018-009**

Project Number: 2018-02-013  
Installation Number: 183-0265

Parent Company: St. Charles County Police Department

Parent Company Address: 101 Sheriff Dierker Court, O'Fallon, MO 63366

Installation Name: St. Charles County Police Department

Installation Address: 101 Sheriff Dierker Court, O'Fallon, MO 63366

Location Information: St. Charles County, S22, T47N, R3E

Application for Authority to Construct was made for:  
Installation of a ELASTEC Drug Terminator. 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  
Kathy Kolb  
New Source Review Unit

Director or Designee  
Department of Natural Resources

**MAR 20 2018**

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 start up 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 start up 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."*

St. Charles County Police Department  
St. Charles County, S22, T47N, R3E

1. Process Requirements for the Incinerator (EU-01)
  - A. St. Charles County Police Department shall burn exclusively contraband or prohibited goods such as illegal drugs as defined in Chapter 195 Drug Regulations Section 195.017 RSMo. Revised, updated, or corrected sections of Chapter 195 that define illegal drugs are also authorized for incineration.
  - B. St. Charles County Police Department shall maintain the temperature in the final combustion chamber at or above 1,100 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.
  - C. 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.
  - D. St. Charles County Police Department shall only burn charcoal or clean wood as fuel during a burn cycle. Paper is allowed during startup.
  - E. St. Charles County Police Department shall maintain an accurate record of each batch incinerated that will include the following:
    - 1) Item(s) combusted,
    - 2) the date combusted,
    - 3) a court case or other criminal identification marker associated with the item(s) combusted,
    - 4) the temperature of the exhaust,
    - 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.

**SPECIAL CONDITIONS:**

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

- F. 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 St. Charles County Police Department. The inspection shall include the name of the person making the inspection, any repair actions, and replacements parts, etc.
- G. 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**

St. Charles County Police 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, such as 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 St. Charles County Police Department submits within ten days a corrective action plan adequate to timely and significantly mitigate the odors. St. Charles County Police 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 this permit.

**4. Record Keeping and Reporting Requirements**

- A. St. Charles County Police 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. St. Charles County Police 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 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: 2018-02-013

Installation ID Number: 183-0265

Permit Number: 032018-009

Installation Address:

St. Charles County Police Department  
101 Sheriff Dierker Court  
O'Fallon, MO 63366

Parent Company:

St. Charles County Police Department  
101 Sheriff Dierker Court  
O'Fallon, MO 63366

St. Charles County, S22, T47N, R3E

REVIEW SUMMARY

- St. Charles County Police Department has applied for authority to install a waste incineration unit to be used for the destruction of contraband.
- Hazardous Air Pollutant (HAP) emissions are expected from the proposed equipment. Antimony Compounds, Arsenic Compounds, Beryllium Compounds, Cadmium Compounds, Chromium Compounds, Manganese Compounds, Mercury Compounds, Nickel Compounds, Hydrogen Fluoride (CAS # 7664-39-3), Chlorine (CAS # 7782-50-5), Dioxins/Furans, PCB (polychlorinated biphenyls (CAS # 1336-36-6)), and HCl (hydrogen chloride (CAS # 7647-01-0)) are all expected from this incinerator. Individual HAPS are not listed in Table 1 because all are negligible (less than 0.001 tons per year).
- 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 National Emission Standards for Hazardous Air Pollutants (NESHAPs) apply to this installation. None of the currently promulgated Maximum Achievable Control Technology (MACT) regulations apply to the proposed equipment.
- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, Construction Permits Required. Potential emissions of the installation are below each pollutant's de minimis level. All incinerators are required to obtain a Construction Permit.

- This installation is located in St. Charles County, a marginal nonattainment area for the 2008 8-hour ozone standard, a moderate nonattainment area for the 1997 PM<sub>2.5</sub> standard, and an attainment/unclassified area for all other 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 and below the SMALS.
- Emissions testing is not required for the equipment.
- An Operating Permit application is not required for this installation.
- This unit is considered an institutional waste incinerator.
- Approval of this permit is recommended with special conditions.

#### INSTALLATION/PROJECT DESCRIPTION

An ELASTEC Drug Terminator incinerator will be used to destroy exclusively illegal drugs, contraband, or prohibited goods as defined in NSPS EEEE. The unit is portable and offsite storage of the unit between operation events is allowed. The St. Charles County Police Department will operate the incinerator at 1,100 degrees Fahrenheit in accordance with Special Condition 1.B. Ordinary consumer charcoal briquettes and clean wood can be used to fuel the incinerator. The unit can burn clean wood and paper to start the charcoal. Clean wood is wood free from contact with hazardous materials such as certain types of paints or preservatives (treated lumber). The unit may hold 10 pounds of charcoal at a time. Recharging of fuel (charcoal or clean wood) during a burn cycle and stirring of the fire bed may occur to extend the cycle time of the unit. The burn rating for the Drug Terminator is 50 pounds per hour. The unit can be reloaded with contraband or prohibited goods when the unit's exhaust is maintained at or above 1,100 Fahrenheit.

This unit can burn or incinerate those items that are in the possession of the St. Charles County Police 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 include 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 (Other Solid Waste Incinerator) 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 St. Charles County Police 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. The emission rates for criteria pollutants from the drug incinerator and the charcoal fuel were calculated using emission factors from Chapter 1.6 "Wood Residue Combustion in Boilers" September 2003, Table 1.6-1 and Table 1.6-2. Pollutant emission factors were for dry wood with no control since emission factors for drug incinerators do not exist. The higher heating value of charcoal (0.0128 MMBtu/lb) was used to convert the emission factors to lb/ton. The emission factors used in the analysis of HAP emissions were obtained from FIRE for SCC 1-02-009-08. 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 One: Emissions Summary (tons per year)

Pollutant	Regulatory <i>De Minimis</i> /SMAL Levels	Existing Potential Emissions	Existing Actual Emissions (N/A EIQ)	Potential Emissions of the Application
PM <sub>2.5</sub>	10.0	N/A	N/A	1.04
PM <sub>10</sub>	15.0	N/A	N/A	1.21
PM	25.0	N/A	N/A	1.35
SOx	40.0	N/A	N/A	0.08
NOx	40.0	N/A	N/A	1.65
VOC	40.0	N/A	N/A	0.06
CO	100.0	N/A	N/A	2.02
GHG (CO <sub>2</sub> ) <sub>mass/e</sub>	N/A	N/A	N/A	655.95
HAPs	25.0	N/A	N/A	0.12
Benzene	2.0	N/A	N/A	0.014
Acrolein	0.04	N/A	N/A	0.0135
Formaldehyde	2.0	N/A	N/A	0.0148
Hydrogen Chloride	1.0	N/A	N/A	0.0639

N/A = Not Applicable

#### 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 de minimis.

#### APPLICABLE REQUIREMENTS

St. Charles County Police Department 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. For a complete list of applicable requirements for your installation, please consult your operating permit.

#### GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110  
The emission fee is the amount established by the Missouri Air Conservation Commission annually under Missouri Air Law 643.079(1). Submission of an Emissions Inventory Questionnaire (EIQ) is required June 1 for the previous year's emissions.

- *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



## APPENDIX A

### Abbreviations and Acronyms

<b>%</b> .....	percent	<b>Mgal</b> .....	1,000 gallons
<b>°F</b> .....	degrees Fahrenheit	<b>MW</b> .....	megawatt
<b>acfm</b> .....	actual cubic feet per minute	<b>MHDR</b> .....	maximum hourly design rate
<b>BACT</b> .....	Best Available Control Technology	<b>MMBtu</b> ..	Million British thermal units
<b>BMPs</b> .....	Best Management Practices	<b>MMCF</b> .....	million cubic feet
<b>Btu</b> .....	British thermal unit	<b>MSDS</b> .....	Material Safety Data Sheet
<b>CAM</b> .....	Compliance Assurance Monitoring	<b>NAAQS</b> ..	National Ambient Air Quality Standards
<b>CAS</b> .....	Chemical Abstracts Service	<b>NESHAPs</b>	National Emissions Standards for Hazardous Air Pollutants
<b>CEMS</b> .....	Continuous Emission Monitor System	<b>NO<sub>x</sub></b> .....	nitrogen oxides
<b>CFR</b> .....	Code of Federal Regulations	<b>NSPS</b> .....	New Source Performance Standards
<b>CO</b> .....	carbon monoxide	<b>NSR</b> .....	New Source Review
<b>CO<sub>2</sub></b> .....	carbon dioxide	<b>PM</b> .....	particulate matter
<b>CO<sub>2e</sub></b> .....	carbon dioxide equivalent	<b>PM<sub>2.5</sub></b> .....	particulate matter less than 2.5 microns in aerodynamic diameter
<b>COMS</b> .....	Continuous Opacity Monitoring System	<b>PM<sub>10</sub></b> .....	particulate matter less than 10 microns in aerodynamic diameter
<b>CSR</b> .....	Code of State Regulations	<b>ppm</b> .....	parts per million
<b>dscf</b> .....	dry standard cubic feet	<b>PSD</b> .....	Prevention of Significant Deterioration
<b>EIQ</b> .....	Emission Inventory Questionnaire	<b>PTE</b> .....	potential to emit
<b>EP</b> .....	Emission Point	<b>RACT</b> .....	Reasonable Available Control Technology
<b>EPA</b> .....	Environmental Protection Agency	<b>RAL</b> .....	Risk Assessment Level
<b>EU</b> .....	Emission Unit	<b>SCC</b> .....	Source Classification Code
<b>fps</b> .....	feet per second	<b>scfm</b> .....	standard cubic feet per minute
<b>ft</b> .....	feet	<b>SDS</b> .....	Safety Data Sheet
<b>GACT</b> .....	Generally Available Control Technology	<b>SIC</b> .....	Standard Industrial Classification
<b>GHG</b> .....	Greenhouse Gas	<b>SIP</b> .....	State Implementation Plan
<b>gpm</b> .....	gallons per minute	<b>SMAL</b> .....	Screening Model Action Levels
<b>gr</b> .....	grains	<b>SO<sub>x</sub></b> .....	sulfur oxides
<b>GWP</b> .....	Global Warming Potential	<b>SO<sub>2</sub></b> .....	sulfur dioxide
<b>HAP</b> .....	Hazardous Air Pollutant	<b>SSM</b> .....	Startup, Shutdown & Malfunction
<b>hr</b> .....	hour	<b>tph</b> .....	tons per hour
<b>hp</b> .....	horsepower	<b>tpy</b> .....	tons per year
<b>lb</b> .....	pound	<b>VMT</b> .....	vehicle miles traveled
<b>lbs/hr</b> .....	pounds per hour	<b>VOC</b> .....	Volatile Organic Compound
<b>MACT</b> .....	Maximum Achievable Control Technology		
<b>µg/m<sup>3</sup></b> .....	micrograms per cubic meter		
<b>m/s</b> .....	meters per second		

St. Charles County Police Dept.  
 Drug Terminator Incinerator

Polutant	De Minimus Level (tpy)	PTE (tpy)	Conditioned PTE
PM	25	1.3455	1.3455
PM10	15	1.2110	1.2110
PM2.5	10	1.0428	1.0428
SOx	40	0.0841	0.0841
NOx	40	1.6483	1.6483
VOC	40	0.0572	0.0572
CO	100	2.0183	2.0183
CO2	75,000 / 100,000	655.9488	655.9488
HAPS	10.0/ 25.0	0.1215	0.1215

Pounds of contraband per year	438000.00
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St. Charles County Police Dept.  
Drug Terminator Incinerator

Project #: 2018-02-013  
Site ID: 183-0265

Description	Charcoal
MHDR (lb/hr)	60

Pollutant	SCC	Emission Factor (lb/MMBtu)	Emission Factor (lb/ton)	MHDR (lb/hr) Charcoal	MHDR (tpy) Charcoal	PTE (tpy) Charcoal
PM*	10200908	0.4	10.24	60	262.8	1.35
PM10*	10200908	0.36	9.216	60	262.8	1.21
PM2.5*	10200908	0.31	7.936	60	262.8	1.04
SO2**	10200908	0.025	0.64	60	262.8	0.08
NOx**	10200908	0.49	12.544	60	262.8	1.65
VOC**	10200908	0.017	0.4352	60	262.8	0.06
CO**	10200908	0.6	15.36	60	262.8	2.02
CO2**	10200908	195	4992	60	262.8	655.95
HAPS	10200908			60	262.8	0.12

Higher heating value (HHV) for fuel (MMBtu/lb) Charcoal\*\*\* 0.0128

Notes  
Pollutant Emission factors are for dry wood with no control  
HHV used to convert lb/MMBtu to lb/ton.  
Charcoal HHV is higher than dry wood so it was used for worst case calc

HAP?	SCC**	CAS	POLLUTANT	FACTOR (lb/MMBtu)	FACTOR (lb/ton)	PTE (tpy)	SMAL	PTE > SMAL
	10200908	83-32-9	Acenaphthene	9.10E-07	2.33E-05			
	10200908	208-96-8	Acenaphthylene	5.00E-06	1.28E-04			
	10200908	75-07-0	Acetaldehyde	8.30E-04	2.12E-02			
	10200908	67-64-1	Acetone	1.90E-04	4.86E-03			
Y	10200908	98-86-2	Acetophenone	3.20E-09	8.19E-08	1.08E-08	1.00E+00	
Y	10200908	107-02-8	Acrolein	4.00E-03	1.02E-01	1.35E-02	4.00E-02	
Y	10200908	120-12-7	Anthracene	3.00E-06	7.68E-05	1.01E-05	1.00E-02	
	10200908	7440-36-0	Antimony	7.90E-06	2.02E-04			
	10200908	7440-38-2	Arsenic	2.20E-05	5.63E-04			
	10200908	7440-39-3	Barium	1.70E-04	4.35E-03			
	10200908	100-52-7	Benzaldehyde	8.50E-07	2.18E-05			
Y	10200908	71-43-2	Benzene	4.20E-03	1.08E-01	1.41E-02	2.00E+00	
Y	10200908	56-55-3	Benzo (a) anthracene	6.50E-08	1.66E-06	2.19E-07	1.00E-02	
Y	10200908	50-32-8	Benzo (a) pyrene	2.60E-06	6.66E-05	8.75E-06	1.00E-02	
Y	10200908	205-99-2	Benzo (b) fluoranthene	1.00E-07	2.56E-06	3.36E-07	1.00E-02	
	10200908	192-97-2	Benzo (e) pyrene	2.60E-09	6.66E-08			
	10200908	191-24-2	Benzo (g,h,i) perylene	9.30E-08	2.38E-06			
Y	10200908	207-08-9	Benzo (k) fluoranthene	3.60E-08	9.22E-07	1.21E-07	1.00E-02	
	10200908	65-85-0	Benzoic acid	4.70E-08	1.20E-06			
	10200908	7440-41-7	Beryllium	1.10E-06	2.82E-05			
	10200908	7440-43-9	Cadmium	4.10E-06	1.05E-04			
	10200908	86-74-8	Carbazole	1.80E-06	4.61E-05			
	10200908	124-38-9	Carbon dioxide	1.95E+02	4.99E+03			
	10200908	630-08-0	Carbon monoxide	6.00E-01	1.54E+01			
Y	10200908	56-23-5	Carbon tetrachloride	4.50E-05	1.15E-03	1.51E-04	1.00E+00	
Y	10200908	7782-50-5	Chlorine	7.90E-04	2.02E-02	2.66E-03	1.00E-01	
Y	10200908	108-90-7	Chlorobenzene	3.30E-05	8.45E-04	1.11E-04	1.00E+01	
Y	10200908	67-66-3	Chloroform	2.80E-05	7.17E-04	9.42E-05	9.00E-01	
	10200908	91-58-7	2-Chloronaphthalene	2.40E-09	6.14E-08			
	10200908	95-57-8	2-Chlorophenol	2.40E-08	6.14E-07			
	10200908	7440-47-3	Chromium	2.10E-05	5.38E-04			
	10200908	18540-29-9	Chromium (VI)	3.50E-06	8.96E-05			
Y	10200908	218-01-9	Chrysene	3.80E-08	9.73E-07	1.28E-07	1.00E-02	
	10200908	7440-48-4	Cobalt	6.50E-06	1.66E-04			
	10200908	7440-50-8	Copper	4.90E-05	1.25E-03			
	10200908	123-73-9	Crotonaldehyde	9.90E-06	2.53E-04			
	10200908	2051-24-3	Decachlorobiphenyl	2.70E-10	6.91E-09			
Y	10200908	53-70-3	Dibenzo (a,h) anthracene	9.10E-09	2.33E-07	3.06E-08	1.00E-02	
	10200908	25512-42-9	Dichlorobiphenyl	7.40E-10	1.89E-08			
Y	10200908	75-09-2	Dichloromethane	2.90E-04	7.42E-03	9.76E-04	1.00E+01	
Y	10200908	51-28-5	2,4-Dinitrophenol	1.80E-07	4.61E-06	6.05E-07	1.00E+00	
Y	10200908	117-81-7	Diethyl phthalate	4.70E-08	1.20E-06	1.58E-07	5.00E+00	
Y	10200908	100-41-4	Ethylbenzene	3.10E-05	7.94E-04	1.04E-04	1.00E+01	
	10200908	540-49-8	1,2-Ethylene dibromide	5.50E-05	1.41E-03			
Y	10200908	107-06-2	Ethylene dichloride	2.90E-05	7.42E-04	9.76E-05	8.00E-01	
	10200908	206-44-0	Fluoranthene	1.60E-07	4.10E-06			

Sources  
AP 42 Chater 1.6 Wood Residue Combustion in Boilers:  
\*Table 1.6-1 Emission Factors for PM from wood residue combustion  
\*\*WebFire  
\*\*\*[http://www.engineeringtoolbox.com/fuels-higher-calorific-values-d\\_169.html](http://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html)

	10200908	86-73-7	Fluorene	3.40E-06	8.70E-05		
Y	10200908	50-00-0	Formaldehyde	4.40E-03	1.13E-01	1.48E-02	2.00E+00
	10200908	28655-71-2	Heptachlorobiphenyls, total	6.60E-11	1.69E-09		
	10200908		Heptachlorodibenzo-p-dioxins, total	2.00E-09	5.12E-08		
	10200908		Heptachlorodibenzofurans, total	2.40E-10	6.14E-09		
	10200908	26601-64-9	Hexachlorobiphenyls, total	5.50E-10	1.41E-08		
	10200908	34465-46-8	Hexachlorodibenzo-p-dioxins, total	1.60E-06	4.10E-05		
	10200908		Hexachlorodibenzofurans, total	2.80E-10	7.17E-09		
	10200908	66-25-1	Hexanal	7.00E-06	1.79E-04		
Y	10200908	7647-01-0	Hydrogen chloride	1.90E-02	4.86E-01	6.39E-02	1.00E+01
Y	10200908	193-39-5	Indeno(1,2,3-cd)pyrene	8.70E-08	2.23E-06	2.93E-07	1.00E-02
	10200908	15438-31-0	Iron	9.90E-04	2.53E-02		
	10200908	78-84-2	Isobutyraldehyde	1.20E-05	3.07E-04		
	10200908	7439-92-1	Lead	4.80E-05	1.23E-03		
	10200908	7439-96-5	Manganese	1.60E-03	4.10E-02		
	10200908	7439-97-6	Mercury	3.50E-06	8.96E-05		
	10200908	74-82-8	Methane	2.10E-02	5.38E-01		
	10200908	74-83-9	Methyl bromide	1.50E-05	3.84E-04		
Y	10200908	74-87-3	Methyl chloride	2.30E-05	5.89E-04	7.74E-05	1.00E+01
Y	10200908	91-57-6	2-Methyl Naphthalene	1.60E-07	4.10E-06	5.38E-07	1.00E-02
	10200908	7439-98-7	Molybdenum	2.10E-06	5.38E-05		
	10200908	2051-60-7	2-Monochlorobiphenyl	2.20E-10	5.63E-09		
Y	10200908	91-20-3	Naphthalene	9.70E-05	2.48E-03	3.26E-04	1.00E+01
	10200908	7440-02-0	Nickel	3.30E-05	8.45E-04		
	10200908		Nitrogen oxides (NOx)	4.90E-01	1.25E+01		
	10200908	88-75-5	2-Nitrophenol	2.40E-07	6.14E-06		
Y	10200908	100-02-7	4-Nitrophenol	1.10E-07	2.82E-06	3.70E-07	5.00E+00
	10200908	10024-97-2	Nitrous oxide	1.30E-02	3.33E-01		
	10200908	3268-87-9	Octachlorodibenzo-p-dioxins, total	6.60E-08	1.69E-06		
	10200908	39001-02-0	Octachlorodibenzofurans, total	8.80E-11	2.25E-09		
	10200908	25429-29-2	Pentachlorobiphenyls, total	1.20E-09	3.07E-08		
	10200908		Pentachlorodibenzo-p-dioxins, total	1.50E-09	3.84E-08		
	10200908		Pentachlorodibenzofurans, total	4.20E-10	1.08E-08		
Y	10200908	87-86-5	Pentachlorophenol (PCP)	5.10E-08	1.31E-06	1.72E-07	7.00E-01
Y	10200908	127-18-4	Perchloroethylene	3.80E-05	9.73E-04	1.28E-04	1.00E+01
	10200908	198-55-0	Perylene	5.20E-10	1.33E-08		
	10200908	85-01-8	Phenanthrene	7.00E-06	1.79E-04		
Y	10200908	108-95-2	Phenol	5.10E-05	1.31E-03	1.72E-04	1.00E-01
Y	10200908	7723-14-0	Phosphorus (yellow or white)	2.70E-05	6.91E-04	9.08E-05	1.00E-01
	10200908	977/7440	Potassium	3.90E-02	9.98E-01		
Y	10200908	123-38-6	Propionaldehyde	6.10E-05	1.56E-03	2.05E-04	5.00E+00
Y	10200908	78-87-5	Propylene dichloride	3.30E-05	8.45E-04	1.11E-04	1.00E+00
	10200908	129-00-0	Pyrene	3.70E-06	9.47E-05		
	10200908	7782-49-2	Selenium	2.80E-06	7.17E-05		
	10200908	7440-22-4	Silver	1.70E-03	4.35E-02		
	10200908	7440-23-5	Sodium	3.60E-04	9.22E-03		
	10200908	7440-24-6	Strontium	1.00E-05	2.56E-04		
Y	10200908	100-42-5	Styrene	1.90E-03	4.86E-02	6.39E-03	1.00E+00
	10200908	9/5/7446	Sulfur dioxide	2.50E-02	6.40E-01		
	10200908	26914-33-0	Tetrachlorobiphenyls, total	2.50E-09	6.40E-08		
Y	10200908	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	8.60E-12	2.20E-10	2.89E-11	6.00E-07
	10200908		Tetrachlorodibenzo-p-dioxins, total	4.70E-10	1.20E-08		
	10200908	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	9.00E-11	2.30E-09		
	10200908		Tetrachlorodibenzofurans, total	7.50E-10	1.92E-08		
	10200908	7440-31-5	Tin	2.30E-05	5.89E-04		
	10200908	7440-32-6	Titanium	2.00E-05	5.12E-04		
	10200908	529-20-4	o-Tolualdehyde	7.20E-06	1.84E-04		
	10200908	104-87-0	p-Tolualdehyde	1.10E-05	2.82E-04		
Y	10200908	108-88-3	Toluene	9.20E-04	2.36E-02	3.09E-03	1.00E+01
	10200908		Total organic compounds (TOC)	3.90E-02	9.98E-01		
	10200908	7012-37-5	2,4,4'-Trichlorobiphenyl	2.60E-09	6.66E-08		
Y	10200908	71-55-6	1,1,1-Trichloroethane	3.10E-05	7.94E-04	1.04E-04	1.00E+01
Y	10200908	79-01-6	Trichloroethylene	3.00E-05	7.68E-04	1.01E-04	1.00E+01
	10200908	75-69-4	Trichlorofluoromethane	4.10E-05	1.05E-03		
Y	10200908	88-06-2	2,4,6-Trichlorophenol	2.20E-08	5.63E-07	7.40E-08	6.00E+00
	10200908	7440-62-2	Vanadium	9.80E-07	2.51E-05		

Y	10200908	75-01-4	Vinyl chloride	1.80E-05	4.61E-04	6.05E-05	2.00E-01	
	10200908		Volatile organic compounds (VOC)	1.70E-02	4.35E-01			
Y	10200908	95-47-6	o-Xylene	2.50E-05	6.40E-04	8.41E-05	1.00E+01	
	10200908	7440-65-5	Yttrium	3.00E-07	7.68E-06			
	10200908	7440-66-6	Zinc	4.20E-04	1.08E-02			

Total 1.21E-01



Description	Charcoal
MHDR (lb/hr)	60

Pollutant	SCC	Emission Factor (lb/MMBtu)	Emission Factor (lb/ton)	MHDR (lb/hr) Charcoal	MHDR (tpy) Charcoal	PTE (tpy) Charcoal
PM <sup>10</sup>	10200908	0.4	10.24	60	262.8	1.35
PM <sup>2.5</sup>	10200908	0.36	9.216	60	262.8	1.21
SO <sub>2</sub> **	10200908	0.31	7.936	60	262.8	1.04
NO <sub>x</sub> **	10200908	0.025	0.64	60	262.8	0.08
VOC**	10200908	0.49	12.544	60	262.8	1.65
CO**	10200908	0.017	0.4352	60	262.8	0.05
CO <sub>2</sub> **	10200908	0.6	15.36	60	262.8	1.02
HAPs	10200908	195	4992	60	262.8	655.95
				60	262.8	0.12

Higher heating value (HHV) for fuel (MMBtu/lb)  
Charcoal\*\*\* 0.0128

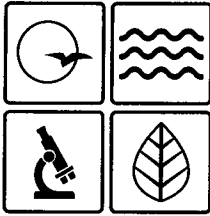
Notes:  
Pollutant Emission factors are for dry wood with no control  
HHV used to convert lb/MMBtu to lb/ton.  
Charcoal HHV is higher than dry wood so it was used for worst case calc

HAP?	SCC**	CAS	POLLUTANT	FACTOR (lb/MMBtu)	FACTOR (lb/ton)	PTE (tpy)	SMAL	PTE > SMAL
		10200908	83-32-9	Acenaphthene	9.10E-07	2.93E-05		
		10200908	208-96-8	Acenaphthylene	5.00E-06	1.28E-04		
		10200908	75-07-0	Acetaldehyde	8.30E-04	2.12E-02		
		10200908	67-64-1	Acetone	1.90E-04	4.86E-03		
Y		10200908	98-86-2	Acetophenone	3.20E-09	8.19E-08	1.08E-08	1.00E+00
Y		10200908	107-02-8	Acrolein	4.00E-03	1.02E-01	1.35E-02	4.00E-02
Y		10200908	120-12-7	Anthracene	3.00E-06	7.68E-05	1.01E-05	1.00E-02
		10200908	7440-36-0	Antimony	7.90E-06	2.02E-04		
		10200908	7440-38-2	Arsenic	2.20E-05	5.63E-04		
		10200908	7440-39-3	Barium	1.70E-04	4.35E-03		
		10200908	100-52-7	Benzaldehyde	8.50E-07	2.18E-05		
Y		10200908	71-43-2	Benzene	4.20E-03	1.08E-01	1.41E-02	2.00E+00
		10200908	56-53-3	Benzo (a) anthracene	6.50E-06	1.66E-06	2.19E-07	1.00E-02
Y		10200908	50-32-8	Benzo (a) pyrene	2.60E-06	6.66E-05	8.75E-06	1.00E-02
Y		10200908	205-99-2	Benzo (b) fluoranthene	1.00E-07	2.55E-06	3.36E-07	1.00E-02
		10200908	192-47-2	Benzo (b) pyrene	2.60E-06	6.66E-05		
		10200908	191-24-2	Benzo (g,h,i) perylene	9.30E-08	2.38E-06		
Y		10200908	207-08-9	Benzo (k) fluoranthene	3.60E-08	9.22E-07	1.21E-07	1.00E-02
		10200908	65-85-0	Benzoic acid	4.70E-08	1.20E-06		
		10200908	7440-41-7	Beryllium	1.10E-06	2.82E-05		
		10200908	7440-43-9	Cadmium	4.10E-06	1.05E-04		
		10200908	86-74-8	Carbazole	1.80E-06	4.61E-05		
		10200908	124-38-9	Carbon dioxide	1.95E+02	4.99E+03		
		10200908	630-08-0	Carbon monoxide	6.00E-01	1.54E+01		
Y		10200908	56-23-5	Carbon tetrachloride	4.50E-05	1.15E-03	1.51E-04	1.00E+00
Y		10200908	7782-50-5	Chlorine	7.90E-04	2.02E-02	2.68E-03	1.00E-01
Y		10200908	108-90-7	Chlorobenzene	3.30E-05	8.45E-04	1.11E-04	1.00E+01
Y		10200908	67-66-3	Chloroform	2.80E-05	7.17E-04	9.42E-05	9.00E-01
		10200908	91-58-7	2-Chloronaphthalene	2.40E-09	6.14E-08		
		10200908	95-57-8	2-Chlorophenol	2.40E-06	6.14E-07		
		10200908	7440-47-3	Chromium	2.10E-05	5.38E-04		
		10200908	18540-29-9	Chromium (VI)	3.50E-06	8.95E-05		
Y		10200908	218-01-5	Chrysene	3.80E-08	9.72E-07	1.28E-07	1.00E-02
		10200908	7440-48-4	Cobalt	6.50E-06	1.66E-04		
		10200908	7440-50-8	Copper	4.90E-05	1.25E-03		
		10200908	123-73-9	Crotonaldehyde	9.90E-06	2.53E-04		
		10200908	2051-24-3	Decachlorobiphenyl	2.70E-10	6.91E-09		
Y		10200908	53-70-3	Dibenzo(a,h)anthracene	9.10E-09	2.33E-07	3.06E-08	1.00E-02
		10200908	25512-42-9	Dichlorobiphenyl	7.40E-10	1.89E-08		
Y		10200908	75-09-2	Dichloromethane	2.90E-04	7.42E-03	9.76E-04	1.00E+01
Y		10200908	51-28-5	2,4-Dinitrophenol	1.80E-07	4.61E-06	6.05E-07	1.00E+00
Y		10200908	117-81-7	Diethyl phthalate	4.70E-08	1.20E-06	1.58E-07	5.00E+00
Y		10200908	100-41-4	Ethylbenzene	3.10E-05	7.94E-04	1.04E-04	1.00E+01
		10200908	540-49-8	1,2-Ethylene dibromide	5.50E-05	1.41E-03		
Y		10200908	107-06-2	Ethylene dichloride	2.90E-05	7.42E-04	9.76E-05	8.00E-01
		10200908	206-44-0	Fluoranthene	1.60E-07	4.10E-06		
		10200908	86-73-7	Fluorene	3.40E-06	8.70E-05		
Y		10200908	50-00-0	Formaldehyde	4.40E-03	1.13E-01	1.48E-02	2.00E+00
		10200908	28655-71-2	Heptachlorobiphenyls, total	6.60E-11	1.69E-09		
		10200908		Heptachlorodibenzo-p-dioxins, total	2.00E-09	5.12E-08		
		10200908		Heptachlorodibenzofurans, total	2.40E-10	6.14E-09		
		10200908	26601-64-9	Hexachlorobiphenyls, total	5.50E-10	1.41E-08		
		10200908	34465-46-8	Hexachlorodibenzo-p-dioxins, total	1.60E-06	4.10E-05		
		10200908		Hexachlorodibenzofurans, total	2.80E-10	7.17E-09		
		10200908	66-25-1	Hexanal	7.00E-06	1.79E-04		
Y		10200908	7647-01-0	Hydrogen chloride	1.90E-02	4.86E-01	6.39E-02	1.00E+01
Y		10200908	193-39-5	Indeno(1,2,3-cd)pyrene	8.70E-08	2.23E-06	2.93E-07	1.00E-02
		10200908	15438-31-0	Iron	9.90E-04	2.53E-02		
		10200908	78-84-2	Isobutyraldehyde	1.20E-05	3.07E-04		
		10200908	7439-92-1	Lead	4.80E-05	1.23E-03		
		10200908	7439-96-5	Manganese	1.60E-03	4.10E-02		
		10200908	7439-97-6	Mercury	3.50E-05	8.96E-05		
		10200908	74-82-8	Methane	2.10E-02	5.38E-01		
		10200908	74-83-9	Methyl bromide	1.50E-05	3.84E-04		
Y		10200908	74-87-3	Methyl chloride	2.30E-05	5.89E-04	7.74E-05	1.00E+01
Y		10200908	91-57-5	2-Methyl Naphthalene	1.60E-07	4.10E-06	5.38E-07	1.00E-02
		10200908	7439-98-7	Molybdenum	2.10E-06	5.38E-05		
		10200908	2053-60-7	2-Monochlorobiphenyl	2.20E-10	5.63E-09		
Y		10200908	91-20-3	Naphthalene	9.70E-05	2.48E-03	3.26E-04	1.00E+01
		10200908	7440-02-0	Nickel	3.30E-05	8.45E-04		
		10200908		Nitrogen oxides (NOx)	4.90E-01	1.25E+01		
		10200908	88-75-5	2-Nitrophenol	2.40E-07	6.14E-06		
Y		10200908	100-02-7	4-Nitrophenol	1.10E-07	2.82E-06	3.70E-07	5.00E+00
		10200908	10024-97-2	Nitrous oxide	1.30E-02	3.33E-01		
		10200908	3268-87-9	Octachlorodibenzo-p-dioxins, total	6.60E-08	1.69E-06		
		10200908	39001-02-0	Octachlorodibenzofurans, total	8.80E-11	2.25E-09		
		10200908	25429-29-2	Pentachlorobiphenyls, total	1.20E-09	3.07E-08		
		10200908		Pentachlorodibenzo-p-dioxins, total	1.50E-09	3.84E-08		
		10200908		Pentachlorodibenzofurans, total	4.20E-10	1.08E-08		
Y		10200908	87-86-5	Pentachlorophenol (PCP)	5.10E-08	1.31E-06	1.72E-07	7.00E-01
		10200908	127-18-4	Perchloroethylene	3.80E-05	9.73E-04	1.28E-04	1.00E+01
		10200908	198-55-0	Perylene	5.20E-10	1.33E-08		
		10200908	85-01-8	Phenanthrene	7.00E-06	1.79E-04		
Y		10200908	108-95-2	Phenol	5.10E-05	1.31E-03	1.72E-04	1.00E-01
Y		10200908	7723-14-0	Phosphorus (yellow or white)	2.70E-05	6.91E-04	9.08E-05	1.00E-01
		10200908	9777440	Potassium	3.90E-02	9.98E-01		
		10200908	123-38-6	Propionaldehyde	6.10E-05	1.56E-03	2.05E-04	5.00E+00
Y		10200908	78-87-5	Propylene dichloride	3.30E-05	8.45E-04	1.11E-04	1.00E+00
		10200908	129-00-0	Pyrene	3.70E-06	9.47E-05		
		10200908	7782-49-2	Selenium	2.80E-06	7.17E-05		
		10200908	7440-22-4	Silver	1.70E-03	4.35E-02		
		10200908	7440-23-5	Sodium	3.60E-04	9.22E-03		
		10200908	7440-24-6	Strontium	1.00E-05	2.56E-04		
Y		10200908	100-42-5	Styrene	1.90E-03	4.86E-02	6.39E-03	1.00E+00
		10200908	9757446	Sulfur dioxide	2.50E-02	6.40E-01		
		10200908	26914-33-0	Tetrachlorobiphenyls, total	2.50E-09	6.40E-08		
Y		10200908	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	8.60E-12	2.20E-10	2.89E-11	6.00E-07
		10200908		Tetrachlorodibenzo-p-dioxins, total	4.70E-10	1.20E-08		
		10200908	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	9.00E-11	2.30E-09		
		10200908		Tetrachlorodibenzofurans, total	7.50E-10	1.92E-08		

Source:  
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\*Table 1.6-1 Emission Factors for PM from wood residue combustion.  
\*\*WebFire  
\*\*\*[http://www.engineeringtoolbox.com/fuels-higher-calorific-values-d\\_169.html](http://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html)

	10200908	7440-31-5	Tin	2.30E-05	5.89E-04		
	10200908	7440-32-6	Titanium	2.00E-05	5.12E-04		
	10200908	529-20-4	o-Tolualdehyde	7.20E-06	1.84E-04		
	10200908	104-87-0	p-Tolualdehyde	1.10E-05	2.82E-04		
Y	10200908	108-88-9	Toluene	9.20E-04	2.36E-02	3.09E-03	1.00E+01
	10200908		Total organic compounds (TOC)	3.90E-02	9.98E-01		
	10200908	7012-37-5	2,4,4'-Trichlorobiphenyl	2.60E-09	6.66E-08		
Y	10200908	71-55-6	1,1,1-Trichloroethane	3.10E-05	7.94E-04	1.04E-04	1.00E+01
Y	10200908	79-01-6	Trichloroethylene	3.00E-05	7.68E-04	1.01E-04	1.00E+01
	10200908	75-69-4	Trichlorofluoromethane	4.10E-05	1.05E-03		
Y	10200908	88-06-2	2,4,6-Trichlorophenol	2.20E-08	5.63E-07	7.40E-08	6.00E+00
	10200908	7440-52-2	Vanadium	9.80E-07	2.51E-05		
Y	10200908	75-01-4	Vinyl chloride	1.80E-05	4.61E-04	6.05E-05	2.00E-01
	10200908		Volatile organic compounds (VOC)	1.70E-02	4.35E-01		
Y	10200908	95-47-6	o-Xylene	2.50E-05	6.40E-04	8.41E-05	1.00E+01
	10200908	7440-65-5	Yttrium	3.00E-07	7.68E-06		
	10200908	7440-66-6	Zinc	4.20E-04	1.08E-02		

Total 1.21E-01



Missouri Department of dnr.mo.gov

# NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

**MAR 20 2018**

Sgt. Ryan Streck  
Forensic Supervisor  
St. Charles County Police Department  
101 Sheriff Direker Court  
O'Fallon, MO 63366

RE: New Source Review Permit - Project Number: 2018-02-013

Dear Sgt. Streck:

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, 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](http://www.oa.mo.gov/ahc).



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Sgt. Ryan Streck  
Page Two

If you have any questions regarding this permit, please do not hesitate to contact Kathy Kolb, 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



Susan Heckenkamp  
New Source Review Unit Chief

SH:kkj

Enclosures

c: St. Louis Regional Office  
PAMS File: 2018-02-013

Permit Number: **032018-009**