

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES
MISSOURI AIR CONSERVATION COMMISSION
AIR POLLUTION CONTROL PROGRAM

**PERMIT
TO
CONSTRUCT**
PERMIT BY RULE

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

Construction Permit Number: 052020-006
Project Number: 2020-05-010
Installation ID: 510-3045

Installation Name and Address

Serenity Memorial Funeral & Cremation Service LLC
1905 Union Boulevard
St. Louis, MO 63113
County of St. Louis City

Parent Company's Name and Address

Serenity Memorial Funeral & Cremation Service LLC
1905 Union Boulevard
St. Louis, MO 63113

Project Description:

Installation of one (1) Arnil CFS Inc. Human Crematory, Model CFS 2300

May 19, 2020

Effective Date

Director or Designee

Department of Natural Resources

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 permit-by-rule application and this permit. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

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 sources(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/>



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

May 19, 2020

Gerald T. Johnson
Owner
Serenity Memorial Funeral & Cremation Service LLC
1905 Union Boulevard
St. Louis, MO 63113

RE: New Source Review Permit, Permit by Rule
Project Number: 2020-05-010
Facility ID Number: 510-3045

Dear Gerald T. Johnson:

Enclosed with this letter is your permit to construct. The entire permit must be retained in your files. Please review your permit carefully. 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. *Section A: General Notification Information* and *Section B: Special Conditions for Crematories and Animal Incinerators* are part of your permit. *Section C: Other Potentially Applicable Requirements* of your original application should be replaced with the attached page, a revised Section C. The application forms located on our website, specifically Section C, contain outdated rule references. Many of the rules for certain geographical areas have been rescinded and consolidated into state-wide rules. The attached Section C has been revised to reflect the current applicable rules.

Operation in accordance with these conditions is necessary for continued compliance. An on-site compliance inspection will be performed at a later date, to validate your statements and conditions claimed on the permit by rule notification. 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>.



Gerald T. Johnson
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If you have any questions regarding this permit, please do not hesitate to contact Susan Heckenkamp at (573) 751-4817, or you may write to me at the Department of Natural Resources' Air Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

A handwritten signature in blue ink that reads "Kendall B. Hale". The signature is written in a cursive style.

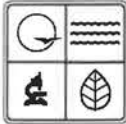
Kendall B. Hale, P.E.
Permits Section Chief

KH:sha

Enclosures

c: St. Louis Regional Office
PAMS File: 2020-05-010
Enclosures

Permit Number: 052020-006



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
 P.O. BOX 176, JEFFERSON CITY, MO 65102-0176

**APPLICATION FOR AUTHORITY TO CONSTRUCT
 PERMIT BY RULE NOTIFICATION
 CREMATORIES AND ANIMAL INCINERATORS**

APCP USE ONLY

CHECK NO. 2055	CHECK RECEIVED (MM/DD/YY) 5-6-20
CHECK AMOUNT \$ 700.⁰⁰ / 600.00 / 100.00	CHECK DATE (MM/DD/YY) 4-30-20
PROJECT NO.	PERMIT NO.

SECTION A: GENERAL NOTIFICATION INFORMATION – ALL NOTIFICATIONS MUST BE ACCOMPANIED BY A \$700 FEE.

SECTION A-1: GENERAL INSTALLATION INFORMATION

1. INSTALLATION NAME Serenity Memorial Funeral & Cremation Service LLC		2. FIPS 29189	3. PLANT NO.
4. INSTALLATION STREET ADDRESS 1905 Union Boulevard			
5. INSTALLATION MAILING ADDRESS 1905 Union Boulevard			
6. CITY St. Louis		STATE MO	ZIP CODE 63113
7. COUNTY NAME St. Louis	8. 1/4, of 1/4, of SECTION TOWNSHIP RANGE		
9. PARENT COMPANY Serenity Memorial Funeral & Cremation Service LLC			
10. PARENT COMPANY MAILING ADDRESS 1905 Union Boulevard			
11. CITY St. Louis		STATE MO	ZIP CODE 63113
12. INSTALLATION CONTACT PERSON Gerald T. Johnson		13. CONTACT PERSON'S TITLE Owner	
14. CONTACT PERSON'S MAILING ADDRESS 1905 Union Boulevard			
15. INSTALLATION CONTACT TELEPHONE NO (314)389-1900 ()		16. INSTALLATION CONTACT FAX NO. ()	
17. INSTALLATION CONTACT E-MAIL ADDRESS serenitymemorial2@yahoo.com			
18. PROJECTED DATE TO COMMENCE CONSTRUCTION Spring 2020		19. PROJECT DATE OF OPERATION STARTUP Summer 2020	

SECTION A-2: INSTALLATION DESCRIPTION

20 Crematory used for human cremation.

RECEIVED
 2020 MAY -6 AM 11:03
 AIR POLLUTION
 CONTROL PGM

SECTION A-3: CERTIFICATION STATEMENT

I certify that I have personally examined and am familiar with the information in this application and believe that the information submitted is accurate and complete. I am aware that making a false statement or misrepresentation in this application is grounds for denying or revoking this permit.

21. SIGNATURE OF RESPONSIBLE OFFICIAL 		22. DATE 4/30/20
23. TYPE OR PRINT NAME OF RESPONSIBLE OFFICIAL GERALD JOHNSON		24. RESPONSIBLE OFFICIAL'S TELEPHONE NUMBER (618) 781-6621
25. TITLE OF RESPONSIBLE OFFICIAL PRESIDENT		

SECTION B: SPECIAL CONDITIONS FOR CREMATORIES AND ANIMAL INCINERATORS

Construction and operation of this new air pollution source is subject to the special conditions listed below. These special conditions are based on the authority granted to the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically RSMo. 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.062 "Construction Permits by Rule").

Please indicate by marking the appropriate box as to whether or not the emission source complies with the rule listed in the applicable emission limit or standard. If any of the applicable emission source boxes are checked no, your source is not eligible for a crematories and animal incinerators permit by rule.

This Permit By Rule applies only to Crematories and Animal Incinerators constructed after October 31, 2003.

SPECIAL CONDITION	EMISSION SOURCE COMPLY?	APPLICABLE EMISSION LIMIT OR STANDARD	METHOD OF COMPLIANCE
10 CSR 10-6.062(3)(B)2.A.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	The materials to be disposed of shall be limited to noninfectious human materials removed during surgery, labor and delivery, autopsy, or biopsy including body parts, tissues and fetuses, organs, bulk blood and body fluids, blood or tissue laboratory specimens, and other noninfectious anatomical remains or animal carcasses in whole or in part. The owner or operator shall minimize the amount of packaging fed to the incinerator, particularly plastic containing chlorine. The incinerators shall not be used to dispose of other non-biological medical wastes including, but not limited to, sharps, rubber gloves, intravenous bags, tubing, and metal parts.	Proper work practice.
10 CSR 10-6.062(3)(B)2.B.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	The manufacturer's rated capacity (burn rate) shall be two hundred (200) pounds per hour or less.	Proper work practice.
10 CSR 10-6.062(3)(B)2.C.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	The incinerator shall be a dual-chamber design.	Proper work practice.
10 CSR 10-6.062(3)(B)2.D.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Burners shall be located in each chamber, sized to manufacturer's specifications, and operated as necessary to maintain the minimum temperature requirements of subparagraph 10 CSR 10-6.062(3)(B)2.E. at all times when the unit is burning waste.	Proper work practice.
10 CSR 10-6.062(3)(B)2.E.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Excluding crematories, the second chamber must be designed to maintain a temperature of one thousand six hundred degrees Fahrenheit (1,600°F) or more with a gas residence time of one-half (1/2) second or more. The temperature shall be monitored with equipment that is accurate to plus or minus two percent (±2%) and continuously recorded. The thermocouples or radiation pyrometers shall be fitted to the incinerator and wired into a manual reset noise alarm such that if the temperature of either of the two (2) chambers falls below the minimum temperature above, the alarm will sound at which time plant personnel shall take immediate measures to either correct the problem or cease operation of the incinerator until the problem is corrected	Proper work practice and maintenance of proper alarm records. These records shall be maintained for not less than five (5) years, and they shall be immediately available to any Missouri Department of Natural Resources personnel upon request.
10 CSR 10-6.062(3)(B)2.F.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	There shall be no obstruction to stack flow, such as by rain caps, unless such devices are designed to automatically open when the incinerator is operated. Properly installed and maintained spark arresters are not considered obstructions.	Proper work practice.

SECTION B: SPECIAL CONDITIONS FOR CREMATORIES AND ANIMAL INCINERATORS (CONTINUED)

SPECIAL CONDITION	EMISSION SOURCE COMPLY?	APPLICABLE EMISSION LIMIT OR STANDARD	METHOD OF COMPLIANCE
10 CSR 10-6.062(3)(B)2.G.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<p>Each incinerator operator shall be trained in the incinerator operating procedures as developed by the American Society of Mechanical Engineers (ASME), by the incinerator manufacturer, or by a trained individual with more than one (1) year experience in the operation of the incinerator that the trainee will be operating. Minimum training shall include basic combustion control parameters of the incinerator and all emergency procedures to be followed should the incinerator malfunction or exceed operating parameters. An operator who meets the training requirements of this condition shall be on duty and immediately accessible during all periods of operation. The manufacturer's operating instructions and guidelines shall be posted at the unit and the unit shall be operated in accordance with these instructions.</p>	<p>Proper work practice and maintenance of proper operator training records. These records shall be maintained for not less than five (5) years, and they shall be immediately available to any Missouri Department of Natural Resources personnel upon request.</p>
10 CSR 10-6.062(3)(B)2.H.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<p>The incinerator shall have an opacity of less than ten percent (10%) at all times.</p>	<p>Proper work practice such that no opacity violations are noted.</p>
10 CSR 10-6.062(3)(B)2.I.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<p>Heat shall be provided by the combustion of natural gas, liquid petroleum gas, or Number 2 fuel oil with less than three-tenths percent (0.3%) sulfur by weight, or by electric power.</p>	<p>Proper work practice.</p>
10 CSR 10-6.062(3)(B)2.J.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<p>The operator shall maintain a log of all alarm trips and the resulting action taken. A written certification of the appropriate training received by the operator, with the date of training, that includes a list of the instructor's qualifications or ASME certification school shall be maintained for each operator. The operator shall maintain an accurate record of the monthly amount and type of waste combusted.</p>	<p>Determined through proper alarm and operator training record keeping. These records shall be maintained for not less than five (5) years, and they shall be immediately available to any Missouri Department of Natural Resources personnel upon request.</p>

SECTION C: OTHER POTENTIALLY APPLICABLE REQUIREMENTS

This section is intended to identify regulations that may apply to this installation. There may be others not listed that apply. To determine rule applicability and specific standards please consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. A copy of the CSR can be found at <http://www.sos.mo.gov/adrules/csr/current/10csr/10csr>

Please note: this 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.

REGULATION OR CONSTRUCTION PERMIT REFERENCE	APPLICABLE EMISSION LIMIT OR STANDARD	METHOD OF COMPLIANCE
10 CSR 10-6.045 Open Burning Restrictions	Shall not conduct, cause, permit or allow the disposal of tires, petroleum-based products, trade waste, construction or demolition waste, salvage operation waste or asbestos containing materials by open burning, except as allowed in the rule.	Any person intending to engage in open burning shall submit a request to the Director.
10 CSR 10-6.050, Start-up, Shutdown and Malfunction Conditions	Shall not commence construction or modification of any installation subject to this rule; begin operation after construction or modification; or begin operation of any installation which has been shut down longer than 5 years without first obtaining a permit.	In the event of a malfunction, which results in excess emissions that exceed 1 hr, the permittee shall implement corrective action and submit reports.
10 CSR 10-6.065, Operating Permits	If applicable, the permittee shall comply with all applicable requirements identified in the operating permit (OP) and retain a copy of the OP on-site and make available to any Missouri Department of Natural Resources personnel upon request.	As required by the rule, the permittee shall submit an operating permit application and submit an annual compliance certification in accordance with the regulation. The permittee shall maintain a current equipment list on-site with the date of installation of the equipment.
10 CSR 10-6.070 New Source Performance Regulations	The following federal NSPS standards may apply: (Ec) Medical Waste Incinerators. Standards of Performance for Incinerators.	As required by regulations.
10 CSR 10-6.110, Submission of Emission Data, Emission Fees and Process Information	Submittal of Emission Inventory Questionnaire (EIQ) and emission fees by frequency noted in 10 CSR 10-6.110.	The permittee shall complete and submit an EIQ and emission fees in accordance with 10 CSR 10-6.110.
10 CSR 10-6.165, Restriction of Emission of Odors	No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one (1) volume of odorous air is diluted to seven (7) volumes of odor-free air for two (2) separate trails not less than 15 minutes apart within the period of 1 hour. The odor evaluation shall be taken at a location outside of the installation's property boundary	No odor violations noted, if and when scentometer readings taken.
10 CSR 10-6.200 Hospital, Medical, Infectious Waste Incinerators	No owner or operator shall cause to be discharged into the atmosphere any gases that contain stack emissions in excess of those listed in 10 CSR 10-6.200(3)(A).	Proper work practice and maintenance of appropriate performance test results.
10 CSR 10-5.170 Control of Odors From Processing Animal Matter.	Applies to installations in St. Louis, St. Charles, Jefferson and Franklin counties and the City of St. Louis. No person shall operate or use any device, machine, equipment, or other contrivance for the reduction of animal matter unless all gases, vapors, and gas-entrained effluents from the facility are incinerated at a temperature of not less than 1,200 °F for a period of not less than 0.3 seconds and otherwise in compliance with this rule.	Proper work practice.