

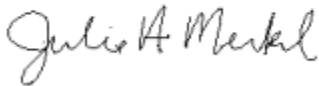
March 7, 2018

Erik Bass
M & E Enterprises, LLC
dba 406 Pet Crematory
3750 N. Montana Ave.
Helena, MT 59602

Dear Mr. Bass:

Montana Air Quality Permit #5194-00 is deemed final as of March 6, 2018, by the Department of Environmental Quality (Department). This permit is for a new Pet Crematory. All conditions of the Department's Decision remain the same. Enclosed is a copy of your permit with the final date indicated.

For the Department,



Julie A. Merkel
Permitting Services Section Supervisor
Air Quality Bureau
(406) 444-3626



Shawn Juers
Environmental Engineer
Air Quality Bureau
(406) 444-2049

JM:SJ
Enclosure

Montana Department of Environmental Quality
Air, Energy & Mining Division

Montana Air Quality Permit #5194-00

M & E Enterprises, LLC
dba 406 Pet Crematory
3750 N. Montana Ave.
Helena, MT 59602

March 6, 2018



MONTANA AIR QUALITY PERMIT

Issued To: M & E Enterprises, LLC
dba 406 Pet Crematory
3750 N. Montana Ave.
Helena, MT 59602

MAQP: #5194-00
Application Complete: 12/12/2017
Preliminary Determination Issued: 1/8/2018
Department's Decision Issued: 2/16/2018
Permit Final: 3/6/2018

A Montana Air Quality Permit (MAQP), with conditions, is hereby granted to M & E Enterprises, LLC, doing business as 406 Pet Crematory (406 Pet Crematory), pursuant to Sections 75-2-204, 211, and 215 of the Montana Code Annotated (MCA), as amended, and Administrative Rules of Montana (ARM) 17.8.740, *et seq.*, as amended, for the following:

Section I: Permitted Facilities

A. Permitted Equipment

406 Pet Crematory proposes to install and operate a natural gas fired pet crematorium rated for a maximum 150 lb/hour combustion rate. The crematorium will be equipped with a secondary chamber and auxiliary burner(s) for pollution control.

B. Plant Location

The physical address of this facility is 2807 Bozeman Ave., Helena, MT 59601 at Latitude 46.598579°, Longitude -111.989750°. The legal address is Section 28, Township 10 North, Range 3 West, in Lewis and Clark County, Montana.

Section II: Conditions and Limitations

A. Emission Limitations

1. 406 Pet Crematory shall not incinerate/cremate any material other than animal remains and/or any corresponding container (ARM 17.8.749).
2. The cremation unit shall be equipped with a secondary combustion chamber with auxiliary burners. 406 Pet Crematory shall preheat the secondary chamber, prior to igniting a charge, to a minimum of 1,700 degrees Fahrenheit (°F). 406 Pet Crematory shall maintain temperatures above 1,600°F in the secondary chamber during incineration (ARM 17.8.752).
3. 406 Pet Crematory shall develop operation procedures for the crematorium, print those procedures in a crematorium operation procedures manual, and require all personnel who operate the unit to familiarize themselves with the operating procedures. The operating procedures manual shall be readily available to all personnel who operate the unit. 406 Pet Crematory shall keep training records containing name and signature of authorized operators available on-site and available to the Department upon request (ARM 17.8.752).

4. In no circumstance shall visible emissions exceed 10% opacity over any six-minute period (ARM 17.8.749).
5. The primary and secondary chamber burners shall be fired on natural gas or propane only (ARM 17.8.749 and ARM 17.8.752).

B. Testing Requirements

1. All compliance source tests shall conform to the requirements of the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
2. The Department of Environmental Quality (Department) may require further testing (ARM 17.8.105).

C. Operational Reporting Requirements

1. 406 Pet Crematory shall supply the Department with annual production information for all emission points, as required by the Department in the annual emission inventory request. The request will include, but is not limited to, all sources of emissions identified in the emission inventory contained in the permit analysis.

Production information shall be gathered on a calendar-year basis and submitted to the Department by the date required in the emission inventory request. Information shall be in the units required by the Department. This information may be used to calculate operating fees, based on actual emissions from the facility, and/or to verify compliance with permit limitations (ARM 17.8.505).

2. 406 Pet Crematory shall notify the Department of any construction or improvement project conducted, pursuant to ARM 17.8.745, that would include ***the addition of a new emissions unit***, change in control equipment, stack height, stack diameter, stack flow, stack gas temperature, source location, or fuel specifications, or would result in an increase in source capacity above its permitted operation. The notice must be submitted to the Department, in writing, 10 days prior to startup or use of the proposed de minimis change, or as soon as reasonably practicable in the event of an unanticipated circumstance causing the de minimis change, and must include the information requested in ARM 17.8.745(l)(d) (ARM 17.8.745).
3. All records compiled in accordance with this permit must be maintained by 406 Pet Crematory as a permanent business record for at least 5 years following the date of the measurement, must be available at the plant site for inspection by the Department, and must be submitted to the Department upon request (ARM 17.8.749).

D. Monitoring Requirements

1. 406 Pet Crematory shall install, calibrate, maintain, and operate continuous monitoring and recording equipment on each cremation unit to measure the secondary chamber exit gas temperature. 406 Pet Crematory shall maintain on file paper circular charts indicating date and timeframe of crematory operations, clearly indicating when primary chamber burners begin operation. Alternatively, 406 Pet Crematory may maintain electronic records, if tangible hardcopy reports, or pdf format reports, can be created and submitted upon request to the Department, demonstrating continuous secondary chamber temperature with date and timeframe of crematory operations, and clearly indicating when primary chamber burners begin operation. All records shall be maintained for a minimum of 5 years from the date of record creation (ARM 17.8.749).
2. 406 Pet Crematory shall record the daily quantity of material incinerated/cremated and the daily hours of operation of the crematorium (ARM 17.8.749).

Section III: General Conditions

- A. Inspection – 406 Pet Crematory shall allow the Department’s representatives access to the source at all reasonable times for the purpose of making inspections or surveys, collecting samples, obtaining data, auditing any monitoring equipment such as Continuous Emission Monitoring Systems (CEMS) or Continuous Emission Rate Monitoring Systems (CERMS), or observing any monitoring or testing, and otherwise conducting all necessary functions related to this permit.
- B. Waiver – The permit and the terms, conditions, and matters stated herein shall be deemed accepted if 406 Pet Crematory fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations – Nothing in this permit shall be construed as relieving 406 Pet Crematory of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided in ARM 17.8.740, *et seq* (ARM 17.8.756).
- D. Enforcement – Violations of limitations, conditions and requirements contained herein may constitute grounds for permit revocation, penalties, or other enforcement action as specified in Section 75-2-401, *et seq.*, MCA.
- E. Appeals – Any person or persons jointly or severally adversely affected by the Department’s decision may request, within 15 days after the Department renders its decision, upon affidavit setting forth the grounds therefor, a hearing before the Board of Environmental Review (Board). A hearing shall be held under the provisions of the Montana Administrative Procedures Act. The filing of a request for a hearing does not stay the Department’s decision, unless the Board issues a stay upon receipt of a petition and a finding that a stay is appropriate under Section 75-2-211(11)(b), MCA. The issuance of a stay on a permit by the Board postpones the effective date of the Department’s decision until conclusion of the hearing and issuance of a final decision by the Board. If a stay is not issued by the Board, the

Department's decision on the application is final 16 days after the Department's decision is made.

- F. Permit Inspection – As required by ARM 17.8.755, Inspection of Permit, a copy of the air quality permit shall be made available for inspection by the Department at the location of the source.
- G. Permit Fee – Pursuant to Section 75-2-220, MCA, failure to pay the annual operation fee by 406 Pet Crematory may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.
- H. Duration of Permit – Construction or installation must begin or contractual obligations entered into that would constitute substantial loss within 3 years of permit issuance and proceed with due diligence until the project is complete or the permit shall expire (ARM 17.8.762).

Montana Air Quality Permit Analysis
M & E Enterprises, LLC, dba 406 Pet Crematory
MAQP #5194-00

I. Introduction/Process Description

M & E Enterprises, LLC, dba 406 Pet Crematory (406 Pet Crematory) proposes to install and operate a natural gas fired pet crematorium rated for a maximum 150 lb/hour combustion rate.

The physical address of this facility is 2807 Bozeman Ave., Helena, MT 59601 at Latitude 46.598579°, Longitude -111.989750°. The legal address is Section 28, Township 10 North, Range 3 West, in Lewis and Clark County, Montana.

A. Permitted Equipment

406 Pet Crematory proposes to install and operate a B & L 750 M5 Pet Crematory. The crematory will be equipped with a secondary combustion chamber and auxiliary burner(s).

B. Source Description

For a typical operation, pet remains are placed into the primary chamber of the cremator. The door is then closed, and a pre-heat of the secondary chamber occurs via auxiliary burner(s). Upon the secondary chamber reaching required pre-heating temperature (1700 °F), the primary chamber burner(s) are ignited and the pet remains incinerated.

The secondary chamber serves as a pollution control device, ensuring a more complete combustion of the exhaust gases entering the chamber. More information can be found in the Best Available Control Technology review associated with this permit.

II. Applicable Rules and Regulations

The following are partial explanations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the Administrative Rules of Montana (ARM) and are available, upon request, from the Department of Environmental Quality (Department). Upon request, the Department will provide references for location of complete copies of all applicable rules and regulations or copies where appropriate.

A. ARM 17.8, Subchapter 1 – General Provisions, including but not limited to:

1. ARM 17.8.101 Definitions. This rule includes a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.

2. ARM 17.8.105 Testing Requirements. Any person or persons responsible for the emission of any air contaminant into the outdoor atmosphere shall, upon written request of the Department, provide the facilities and necessary equipment (including instruments and sensing devices) and shall conduct tests, emission or ambient, for such periods of time as may be necessary using methods approved by the Department.
3. ARM 17.8.106 Source Testing Protocol. The requirements of this rule apply to any emission source testing conducted by the Department, any source or other entity as required by any rule in this chapter, or any permit or order issued pursuant to this chapter, or the provisions of the Clean Air Act of Montana, 75-2-101, *et seq.*, Montana Code Annotated (MCA).

406 Pet Crematory shall comply with the requirements contained in the Montana Source Test Protocol and Procedures Manual, including, but not limited to, using the proper test methods and supplying the required reports. A copy of the Montana Source Test Protocol and Procedures Manual is available from the Department upon request.

4. ARM 17.8.110 Malfunctions. (2) The Department must be notified promptly by telephone whenever a malfunction occurs that can be expected to create emissions in excess of any applicable emission limitation or to continue for a period greater than 4 hours.
5. ARM 17.8.111 Circumvention. (1) No person shall cause or permit the installation or use of any device or any means that, without resulting in reduction of the total amount of air contaminant emitted, conceals or dilutes an emission of air contaminant that would otherwise violate an air pollution control regulation. (2) No equipment that may produce emissions shall be operated or maintained in such a manner as to create a public nuisance.

B. ARM 17.8, Subchapter 2 – Ambient Air Quality, including, but not limited to the following:

1. ARM 17.8.204 Ambient Air Monitoring
2. ARM 17.8.210 Ambient Air Quality Standards for Sulfur Dioxide
3. ARM 17.8.211 Ambient Air Quality Standards for Nitrogen Dioxide
4. ARM 17.8.212 Ambient Air Quality Standards for Carbon Monoxide
5. ARM 17.8.213 Ambient Air Quality Standard for Ozone
6. ARM 17.8.214 Ambient Air Quality Standard for Hydrogen Sulfide
7. ARM 17.8.220 Ambient Air Quality Standard for Settled Particulate Matter
8. ARM 17.8.221 Ambient Air Quality Standard for Visibility
9. ARM 17.8.222 Ambient Air Quality Standard for Lead
10. ARM 17.8.223 Ambient Air Quality Standard for PM₁₀
11. ARM 17.8.230 Fluoride in Forage

406 Pet Crematory must maintain compliance with the applicable ambient air quality standards.

C. ARM 17.8, Subchapter 3 – Emission Standards, including, but not limited to:

1. ARM 17.8.304 Visible Air Contaminants. This rule requires that no person may cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes.
2. ARM 17.8.308 Particulate Matter, Airborne. (1) This rule requires an opacity limitation of less than 20% for all fugitive emission sources and that reasonable precautions be taken to control emissions of airborne particulate matter.
3. ARM 17.8.309 Particulate Matter, Fuel Burning Equipment. This rule requires that no person shall cause, allow, or permit to be discharged into the atmosphere particulate matter caused by the combustion of fuel in excess of the amount determined by this rule.
4. ARM 17.8.310 Particulate Matter, Industrial Process. This rule requires that no person shall cause, allow, or permit to be discharged into the atmosphere particulate matter in excess of the amount set forth in this rule.
5. ARM 17.8.322 Sulfur Oxide Emissions--Sulfur in Fuel. (4) Commencing July 1, 1972, no person shall burn liquid or solid fuels containing sulfur in excess of 1 pound of sulfur per million Btu fired. (5) Commencing July 1, 1971, no person shall burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions. 406 Pet Crematory will burn pipeline quality natural gas or commercial grade propane, which will meet this limitation.
6. ARM 17.8.316 Incinerators. (1) An incinerator may not be used to burn solid or hazardous waste unless the incinerator is a multiple chamber incinerator or has a design of equal effectiveness approved by the department prior to installation or use. (2) A person may not cause or authorize to be discharged into the outdoor atmosphere from any incinerator, particulate matter in excess of 0.10 grains per standard cubic foot of dry flue gas, adjusted to 12% carbon dioxide and calculated as if no auxiliary fuel had been used. (3) A person may not cause or authorize to be discharged into the outdoor atmosphere from any incinerator emissions which exhibit an opacity of 10% or greater averaged over six consecutive minutes. (4) To determine compliance with this rule, the department may direct that an incinerator not be operated at any time other than between the hours of 8:00 a.m. and 5:00 p.m. When operation of an incinerator is prohibited by the department, the owner or operator of the incinerator shall store any solid or hazardous waste in a manner that will not create a fire hazard or arrange for removal and disposal of the solid or hazardous waste in a manner consistent with ARM Title 17, chapter 50, subchapter 5. (5) This rule applies to performance tests for determining emissions of particulate matter from incinerators. All performance tests shall be conducted while the affected facility is burning solid or hazardous waste representative of normal operation. Testing shall be conducted in accordance with ARM 17.8.106 and the Montana Source Test Protocol and Procedures Manual. 406 Pet Crematory has applied for an MAQP pursuant to MCA 75-2-215 and ARM 17.8.770. MAQP #5194-00 requires a secondary chamber equipped

with auxiliary burners and minimum temperature requirements in that secondary chamber. The MAQP also requires that in no circumstance may visible emissions exceed 10% over any 6 consecutive minutes. Under this operating scenario, emissions performance is expected to be significantly better than 0.10 gr/dscf. As noted in ARM 17.8.316(6), the requirements of this rule are not applicable to an incinerator which has received an MAQP under MCA 75-2-215 and ARM 17.8.770. Therefore, while the unit is expected to satisfy the emissions performance requirements of ARM 17.8.316, these requirements are not applicable to this facility.

7. ARM 17.8.340 Standard of Performance for New Stationary Sources and Emission Guidelines for Existing Sources. This rule incorporates, by reference, 40 CFR Part 60, Standards of Performance for New Stationary Sources (NSPS). This facility is not an NSPS affected source because it does not meet the definition of any NSPS subpart defined in 40 CFR Part 60.

40 CFR 60 Subpart E – Standards of Performance for Incinerators

The provisions of this subpart are applicable to each incinerator of more than 45 metric tons per day charging rate. The 406 Pet Crematory is not an affected facility under this subpart.

40 CFR 60 Subpart Ea and Eb – Standards of Performance for Municipal Waste Combustors

The 406 Pet Crematory is permitted for use as a pet crematory only. Therefore, the crematory will not incinerate household, commercial/retail, or industrial wastes as described in these subparts and is not an affected facility under these subparts.

40 CFR 60 Subpart Ec – Standards of Performance for Hospital/Medical/Infection Waste Incinerators

This subpart does not apply to the incineration of remains. The 406 Pet Crematory is permitted for use as a pet crematory only and therefore is not an affected facility under this subpart.

40 CFR 60 Subpart AAAA – Standards of Performance for Small Municipal Waste Combustion Units

The 406 Pet Crematory is permitted for use as a pet crematory only. Therefore, the crematory will not incinerate household, commercial/retail, or industrial wastes as described in this subpart and is not an affected facility under this subpart.

40 CFR 60 Subpart CCCC – Standards of Performance for Commercial and Industrial Solid Waste Incineration Units

The 406 Pet Crematory is permitted for use as a pet crematory only. Therefore, the crematory will not combust commercial or industrial waste and is not an affected facility under this subpart.

40 CFR 60 Subpart EEEE – Standards of Performance for Other Solid Waste Incineration Units

This subpart applies to very small municipal waste combustion units or institutional waste incineration units, as defined in this subpart. The 406 Pet Crematory is permitted for use as a pet crematory only and therefore is not an affected facility under this subpart.

8. ARM 17.8.341 Emission Standards for Hazardous Air Pollutants. This source shall comply with the standards and provisions of 40 CFR Part 61, as appropriate. This facility is not a NESHAP affected source.
9. ARM 17.8.342 Emission Standards for Hazardous Air Pollutants for Source Categories. This rule incorporates, by reference, 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants. This facility is not subject to any 40 CFR Part 63 requirements.

40 CFR 63 Subpart EEE – National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors

The provisions of this subpart apply to all hazardous waste combustors. The 406 Pet Crematory is permitted for use as a pet crematory only. Therefore, it does not meet the definition of a hazardous waste combustor and is not an affected facility under this subpart.

D. ARM 17.8, Subchapter 5 – Air Quality Permit Application, Operation, and Open Burning Fees, including, but not limited to:

1. ARM 17.8.504 Air Quality Permit Application Fees. This rule requires that an applicant submit an air quality permit application fee concurrent with the submittal of an air quality permit application. A permit application is incomplete until the proper application fee is paid to the Department. 406 Pet Crematory submitted the appropriate permit application fee for the current permit action.
2. ARM 17.8.505 Air Quality Operation Fees. An annual air quality operation fee must, as a condition of continued operation, be submitted to the Department by each source of air contaminants holding an air quality permit (excluding an open burning permit) issued by the Department. The air quality operation fee is based on the actual or estimated actual amount of air pollutants emitted during the previous calendar year.

An air quality operation fee is separate and distinct from an air quality permit application fee. The annual assessment and collection of the air quality operation fee, described above, shall take place on a calendar-year basis. The Department may insert into any final permit issued after the effective date of these rules, such conditions as may be necessary to require the payment of an air quality operation fee on a calendar-year basis, including provisions that prorate the required fee amount.

- E. ARM 17.8, Subchapter 7 – Permit, Construction, and Operation of Air Contaminant Sources, including, but not limited to:
1. ARM 17.8.740 Definitions. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
 2. ARM 17.8.743 Montana Air Quality Permits--When Required. This rule requires a person to obtain an air quality permit or permit modification to construct, modify, or use any air contaminant sources that have the potential to emit (PTE) greater than 25 tons per year of any pollutant. 406 Pet Crematory does not have a PTE greater than 25 tons per year, however, is required to obtain an MAQP by statutory requirement of Montana Code Annotated 75-2-215. Because 406 Pet Crematory must obtain an air quality permit, all normally applicable requirements apply.
 3. ARM 17.8.744 Montana Air Quality Permits--General Exclusions. This rule identifies the activities that are not subject to the Montana Air Quality Permit program.
 4. ARM 17.8.745 Montana Air Quality Permits--Exclusion for De Minimis Changes. This rule identifies the de minimis changes at permitted facilities that do not require a permit under the Montana Air Quality Permit Program.
 5. ARM 17.8.748 New or Modified Emitting Units--Permit Application Requirements. (1) This rule requires that a permit application be submitted prior to installation, modification, or use of a source. 406 Pet Crematory submitted the required permit application for the current permit action. (7) This rule requires that the applicant notify the public by means of legal publication in a newspaper of general circulation in the area affected by the application for a permit. 406 Pet Crematory submitted an affidavit of publication of public notice for the December 5, 2017 issue of the *Independent Record*, a newspaper of general circulation in the Town of Helena in Lewis and Clark County, as proof of compliance with the public notice requirements.
 6. ARM 17.8.749 Conditions for Issuance or Denial of Permit. This rule requires that the permits issued by the Department must authorize the construction and operation of the facility or emitting unit subject to the conditions in the permit and the requirements of this subchapter. This rule also requires that the permit must contain any conditions necessary to assure compliance with the Federal Clean Air Act (FCAA), the Clean Air Act of Montana, and rules adopted under those acts.
 7. ARM 17.8.752 Emission Control Requirements. This rule requires a source to install the maximum air pollution control capability that is technically practicable and economically feasible, except that BACT shall be utilized. The required BACT analysis is included in Section III of this permit analysis.
 8. ARM 17.8.755 Inspection of Permit. This rule requires that air quality permits shall be made available for inspection by the Department at the location of the source.

9. ARM 17.8.756 Compliance with Other Requirements. This rule states that nothing in the permit shall be construed as relieving 406 Pet Crematory of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided in ARM 17.8.740, *et seq.*
10. ARM 17.8.759 Review of Permit Applications. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those permit applications that do not require the preparation of an environmental impact statement.
11. ARM 17.8.760 Additional Review of Permit Applications. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those applications that require an environmental impact statement.
12. ARM 17.8.762 Duration of Permit. An air quality permit shall be valid until revoked or modified, as provided in this subchapter, except that a permit issued prior to construction of a new or modified source may contain a condition providing that the permit will expire unless construction is commenced within the time specified in the permit, which in no event may be less than 1 year after the permit is issued.
13. ARM 17.8.763 Revocation of Permit. An air quality permit may be revoked upon written request of the permittee, or for violations of any requirement of the Clean Air Act of Montana, rules adopted under the Clean Air Act of Montana, the FCAA, rules adopted under the FCAA, or any applicable requirement contained in the Montana State Implementation Plan (SIP).
14. ARM 17.8.764 Administrative Amendment to Permit. An air quality permit may be amended for changes in any applicable rules and standards adopted by the Board of Environmental Review (Board) or changed conditions of operation at a source or stack that do not result in an increase of emissions as a result of those changed conditions. The owner or operator of a facility may not increase the facility's emissions beyond permit limits unless the increase meets the criteria in ARM 17.8.745 for a de minimis change not requiring a permit, or unless the owner or operator applies for and receives another permit in accordance with ARM 17.8.748, ARM 17.8.749, ARM 17.8.752, ARM 17.8.755, and ARM 17.8.756, and with all applicable requirements in ARM Title 17, Chapter 8, Subchapters 8, 9, and 10.
15. ARM 17.8.765 Transfer of Permit. This rule states that an air quality permit may be transferred from one person to another if written notice of intent to transfer, including the names of the transferor and the transferee, is sent to the Department.
16. ARM 17.8.770 Additional Requirements for Incinerators. This rule specifies the additional information that must be submitted to the Department for incineration facilities subject to 75-2-215, Montana Code Annotated (MCA).

- F. ARM 17.8, Subchapter 8 – Prevention of Significant Deterioration of Air Quality, including, but not limited to:
1. ARM 17.8.801 Definitions. This rule is a list of applicable definitions used in this subchapter.
 2. ARM 17.8.818 Review of Major Stationary Sources and Major Modifications-Source Applicability and Exemptions. The requirements contained in ARM 17.8.819 through ARM 17.8.827 shall apply to any major stationary source and any major modification, with respect to each pollutant subject to regulation under the FCAA that it would emit, except as this subchapter would otherwise allow.

This facility is not a major stationary source because this facility is not a listed source and the facility's PTE is below 250 tons per year of any pollutant (excluding fugitive emissions).

- G. ARM 17.8, Subchapter 12 – Operating Permit Program Applicability, including, but not limited to:
1. ARM 17.8.1201 Definitions. (23) Major Source under Section 7412 of the FCAA is defined as any source having:
 - a. PTE > 100 tons/year of any pollutant;
 - b. PTE > 10 tons/year of any one hazardous air pollutant (HAP), PTE > 25 tons/year of a combination of all HAPs, or lesser quantity as the Department may establish by rule; or
 - c. PTE > 70 tons/year of particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀) in a serious PM₁₀ nonattainment area.
 2. ARM 17.8.1204 Air Quality Operating Permit Program. (1) Title V of the FCAA amendments of 1990 requires that all sources, as defined in ARM 17.8.1204(1), obtain a Title V Operating Permit. In reviewing and issuing MAQP #5194-00 for 406 Pet Crematory, the following conclusions were made:
 - a. The facility's PTE is less than 100 tons/year for any pollutant.
 - b. The facility's PTE is less than 10 tons/year for any one HAP and less than 25 tons/year for all HAPs.
 - c. This source is not located in a serious PM₁₀ nonattainment area.
 - d. This facility is not subject to any current NSPS.
 - e. This facility is not subject to any current NESHAP.
 - f. This source is not a Title IV affected source, or a solid waste combustion unit.

g. This source is not an EPA designated Title V source.

Based on these facts, the Department determined that 406 Pet Crematory will be a minor source of emissions as defined under Title V.

III. BACT Determination

A BACT determination is required for each new or modified source. 406 Pet Crematory shall install on the new or modified source the maximum air pollution control capability which is technically practicable and economically feasible, except that BACT shall be utilized.

Emissions of products of incomplete combustion from incineration (carbon monoxide (CO), volatile organic compounds (VOC), particulate matter, and organic HAPs) resulting from incinerator operations can be controlled by use of a properly designed and operated secondary combustion chamber.

In a secondary combustion chamber, auxiliary burner(s) (often referred to as ‘afterburners’) are utilized to further combust components vaporized or carried through (entrained) during primary combustion. Proper design includes good turbulence, high temperature and adequate residence time. The destruction efficiency of the components released, formed, or carried through from primary combustion is exponentially increased with increased residence time and temperature in the secondary chamber. Proper operation includes operating the secondary chamber at maximum rated temperatures, and ensuring that the secondary chamber is preheated to the required set-point prior to igniting the primary chamber.

Temperature requirements of the secondary chamber vary depending on the heating value and moisture content of the waste, the amount and types of HAPs and other products of incomplete combustion entering the secondary chamber, and the required emissions performance. The afterburners are usually fired to produce a temperature higher than achieved in the primary combustion chamber. A minimum 1600 °F temperature is recommended to reduce organic HAP emissions, including combustion formed dioxin emissions. Increased temperatures also increase destruction efficiency of other components of incomplete combustion including HAPs, VOC, CO, and PM. Quickly cooling the combustion gases after secondary combustion is further found to minimize thermally formed dioxin emissions.

Residence time is achieved by appropriate sizing of the secondary chamber. Such size should provide a residence time long enough to support complete combustion within the secondary combustion chamber given secondary chamber temperatures. Increased secondary chamber size results in increased residence time and increased destruction efficiency, assuming good turbulence. Higher secondary combustion chamber volume, temperature, and turbulence results in increased initial and ongoing operating costs.

Additional control of acid gases created during incineration can be made by use of a wet scrubber. Acid gases can be expected when burning components which include chlorine, such as plastic. However, based on the limited amount of chlorine expected to be charged, additional wet scrubber control for crematory operations is not commonly found to represent BACT as the additional cost is not warranted compared to the amount of emissions created.

Control of heavy metals can be accomplished by use of a fabric filter or wet scrubber. However, based on the limited amount of heavy metals expected from a crematory, addition of a fabric filter for heavy metal control was determined beyond the requirements of BACT.

Combustion related emissions can also be minimized via fuel selection. Natural gas combustion is inherently low in emissions of air pollutants due to characteristics of the fuel. The smaller fuel molecule sizes, lack of fuel bound nitrogen and other impurities, and the inherently low sulfur content of commercially available natural gas and propane lead to more complete combustion and therefore less emissions of PM, CO, VOC, NO_x, and SO₂ compared to other fuels.

A properly designed crematory normally has essentially no visible emissions during proper operation. The presence of visible emissions may be an indicator that the unit is not functioning properly. Therefore, while a BACT derived visible emissions standard has not been included, a visible emissions performance requirement has been assigned as another indicator of performance.

406 Pet Crematory has proposed a design capable of reaching 1800 °F in the secondary chamber with a residence time of 1 second. The department concurs such control represents BACT for this source category.

IV. Emission Inventory – Toxics

Toxic Emissions from Crematory Retort (including fuel and case wrappings)				
HAP Category / Pollutant Name	Emission Factor (lb/150 lb body) - or - (lb/MMscf natural gas from AP-42 where not tested/reported in crematory emissions)	CAS #	lb/yr	Fraction of all HAPS
Heavy Metals				
Antimony (less than)	1.51E-05	7440360	1.32E-01	1.90E-04
Arsenic (less than)	1.50E-05	7440382	1.31E-01	1.88E-04
Beryllium	1.37E-06	7440417	1.20E-02	1.72E-05
Cadmium	1.10E-05	7440439	9.64E-02	1.38E-04
Chromium	2.99E-05	7440473	2.62E-01	3.76E-04
Chromium, hx	1.35E-05	18540299	1.18E-01	1.70E-04
Cobalt (less than)	8.75E-07	7440484	7.67E-03	1.10E-05
Lead	6.62E-05	7439921	5.80E-01	8.31E-04
Nickel	3.82E-05	7440020	3.35E-01	4.80E-04
Selenium	4.36E-05	7782492	3.82E-01	5.48E-04
Zinc	3.53E-04	7440666	3.09E+00	4.43E-03
Polycyclic Organic Matter (POM)				
2-methylnaphthalene	2.40E-05	91576	7.21E-04	1.03E-06
3-methylchloranthrene (less than)	9.00E-07	56495	2.71E-05	3.88E-08
Anthracene (less than)				
Anthracene (less than)	1.20E-06	120127	3.61E-05	5.17E-08
Benzene	2.10E-03	71432	6.31E-02	9.05E-05
Dichlorobenzene	1.20E-03	25321226	3.61E-02	5.17E-05
Hexane	1.80E+00	110543	5.41E+01	7.76E-02
Napthalene	6.10E-04	91203	1.83E-02	2.63E-05
Phenanathrene	1.70E-05	85018	5.11E-04	7.33E-07
Toluene	3.40E-03	108883	1.02E-01	1.47E-04
Acenaphthene	1.11E-07	83329	9.72E-04	1.39E-06
Acenaphthylene	1.22E-07	208968	1.07E-03	1.53E-06
Benzo(a)anthracene (less than)	4.88E-09	56553	4.27E-05	6.13E-08
Benzo(a)pyrene (less than)	1.46E-08	50328	1.27E-04	1.83E-07
Benzo(b)fluoranthene (less than)	7.95E-09	205992	6.96E-05	9.99E-08
Benzo(g,h,i)perylene (less than)	1.46E-08	191242	1.27E-04	1.83E-07
Benzo(k)fluoranthene (less than)	7.10E-09	207089	6.22E-05	8.92E-08
Chrysene (less than)	2.70E-08	218019	2.37E-04	3.39E-07
Dibenzo(a,h)anthracene (less than)	6.35E-09	53703	5.56E-05	7.98E-08
Fluorene	4.17E-07	86737	3.65E-03	5.24E-06
Fluoranthene	2.05E-07	206440	1.80E-03	2.57E-06
Indeno(1,2,3-cd)pyrene (less than)	7.70E-09	193395	6.75E-05	9.67E-08
Phenanthrene	2.29E-06	85018	2.01E-02	2.88E-05
Pyrene	1.62E-07	129000	1.42E-03	2.03E-06
Dibenzofurans				
1,2,3,4,6,7,8-Heptachlorodibenzofuran (less than)	2.29E-09	67562394	2.00E-05	2.87E-08
1,2,3,4,7,8,9-Heptachlorodibenzofuran (less than)	1.39E-10	55673897	1.22E-06	1.75E-09
1,2,3,4,7,8-Hexachlorodibenzofuran	9.53E-10	70648269	8.35E-06	1.20E-08
1,2,3,6,7,8-Hexachlorodibenzofuran	8.52E-10	57117449	7.46E-06	1.07E-08
1,2,3,7,8,9-Hexachlorodibenzofuran	1.67E-09	72918219	1.46E-05	2.10E-08
2,3,4,6,7,8-Hexachlorodibenzofuran	3.44E-10	60851345	3.01E-06	4.32E-09
1,2,3,7,8-Pentachlorodibenzofuran (less than)	1.47E-10	57117416	1.29E-06	1.85E-09
2,3,4,7,8-Pentachlorodibenzofuran (less than)	4.43E-10	57117314	3.88E-06	5.56E-09
2,3,7,8-Tetrachlorodibenzofuran	5.19E-10	51207319	4.55E-06	6.52E-09
Listed Non-POM Organic HAPs				
Acetaldehyde	1.30E-04	75070	1.14E+00	1.63E-03
Formaldehyde	3.40E-05	50000	2.98E-01	4.27E-04
Listed Acids				
Hydrogen chloride	7.20E-02	7647010	6.31E+02	9.04E-01
Hydrogen fluoride	6.60E-04	7664393	5.78E+00	8.29E-03
Dioxins				
2,3,7,8-tetrachlorodibenzo-p-dioxin	7.94E-11	1746016	6.96E-07	9.97E-10
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	3.79E-09	35822469	3.32E-05	4.76E-08
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.75E-10	39227286	2.41E-06	3.45E-09
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	3.97E-10	57653857	3.48E-06	4.99E-09
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	4.92E-10	19408743	4.31E-06	6.18E-09
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	2.33E-10	40321764	2.04E-06	2.93E-09

Emissions Inventory – Criteria Pollutants:

Total Criteria Pollutant Emissions		
Pollutant	Nat. Gas (ton/yr)	Cremation (ton/yr)
PM, PM ₁₀ & PM _{2.5} , including condensibles	0.11	0.37
NOx	1.50	1.13
CO	1.26	0.97
SO ₂	0.01	0.71
VOC	0.08	0.98

V. Existing Air Quality

406 Pet Crematory proposes to locate in an area currently designated as attainment/unclassifiable for all conventional pollutants.

VI. Ambient Air Impact Analysis

Potential emissions from the proposed facility are significantly less than the Department’s regulatory permitting threshold and impacts to ambient air quality from a conventional pollutants standpoint will be negligible.

As required by ARM 17.8.770, a human health risk analysis of HAP emissions was conducted for the proposed crematory. Ambient air modeling was accomplished using SCREEN3 software; an EPA approved ambient air modeling software used for conservative modeling. Ambient air impacts were modeled for the non-criteria pollutants identified in the potential to emit calculations. The modeling assumed the proposed crematory has a stack height of 18 feet (ft), diameter of 1.7 ft with vertical discharge, a stack exit temperature of 1000 °F, and a flow rate of 2,000 actual cubic feet per minute (ACFM).

Although not all pollutants were found to exceed the de minimis levels specified in Table 1 or Table 2 or ARM 17.8.770, the Department conducted a full risk assessment on the inhalation exposure pathway for those pollutants in which emissions factor data could be found.

Negligible Risk Assessment⁽¹⁾:

HAP Category / Pollutant Name	Cancer URF ⁽²⁾	Cancer Risk ⁽³⁾	CNCREL ⁽⁴⁾	CNCREL Quotient ⁽⁵⁾
<u>Heavy Metals</u>				
Arsenic (less than)	0.0043	1.49712E-07	0.015	0.002321117
Beryllium	0.0024	7.63183E-09	0.02	0.000158996
Cadmium	0.0018	4.59581E-08	0.01	0.002553228
Chromium, hx	0.012	3.76021E-07	0.1	0.000313351
Cobalt (less than)	N/A	N/A	0.1	2.03098E-05
Lead	N/A	N/A	0.15	0.001024386
Nickel	N/A	N/A	0.09	0.000985185

HAP Category / Pollutant Name	Cancer URF ⁽²⁾	Cancer Risk ⁽³⁾	CNCREL ⁽⁴⁾	CNCREL Quotient ⁽⁵⁾
Selenium	N/A	N/A	20	5.06003E-06
<u>Polycyclic Organic Matter (POM)</u>				
3-methylchloranthrene (less than)	0.0063	4.51594E-11	N/A	N/A
7,12 Dibenz(a)anthracene (less than)	0.071	6.78585E-10	N/A	N/A
Benzene	0.0000078	1.3046E-10	30	5.57523E-07
Dichlorobenzene	0.000011	1.05133E-10	800	1.19469E-08
Hexane	N/A	N/A	700	2.04804E-05
Napthalene	0.000034	N/A	3	1.61947E-06
Toluene	N/A	N/A	5000	5.41594E-09
Benzo(a)pyrene (less than)	0.0011	3.71495E-11	N/A	N/A
Benzo(b)fluoranthene (less than)	0.00011	2.02982E-12	N/A	N/A
Benzo(k)fluoranthene (less than)	0.00011	1.81279E-12	N/A	N/A
Chrysene (less than)	0.000011	6.89372E-13	N/A	N/A
Dibenzo(a,h)anthracene (less than)	0.00011	1.6213E-12	N/A	N/A
Indeno(1,2,3-cd)pyrene (less than)	0.00011	1.96599E-12	N/A	N/A
<u>Dibenzofurans</u>				
	1.3	2.21828E-08	N/A	N/A
<u>Listed Non-POM Organic HAPs</u>				
Acetaldehyde	N/A	N/A	9	3.35272E-05
Formaldehyde	0.000013	1.02593E-09	9.8	8.05285E-06
<u>Listed Acids</u>				
Hydrogen chloride (hydrochloric acid)	N/A	N/A	20	0.008356019
Hydrogen fluoride	N/A	N/A	14	0.000109424
<u>Dioxins</u>				
2,3,7,8-tetrachlorodibenzo-p-dioxin	33	6.08179E-09	0.00004	4.60742E-06
TOTAL:		6.1313E-07		0.015915939

Footnotes:

- (1) Source of chronic dose-response values is from USEPA Table 1: Prioritized Chronic Dose-Response Values for Screening Risk Assessments: <https://www.epa.gov/fera/dose-response-assessment-assessing-health-risks-associated-exposure-hazardous-air-pollutants>
- (2) Cancer Chronic Inhalation Unit Risk Factor in units of 1/ $\mu\text{g}/\text{m}^3$
- (3) Cancer Risk is unit less and is calculated by multiplying the predicted concentration by the URF
- (4) Chronic Noncancer Reference Exposure Level
- (5) CNCREL Quotient Value is calculated by dividing the modeled concentration by the CNCREL

No individual pollutant concentration exceeds the Cancer Risk threshold of 1.00E-06 and the sum of all Cancer Risks concentrations does not exceed 1.00E-05, and further, the sum of the Chronic Non-cancer Reference Exposure Level hazard quotients is less than 1.0. Therefore, compliance with the negligible risk requirement as outlined in ARM 17.8.770 is demonstrated. The impacts of existing emissions sources not owned or operated by 406 Pet Crematory, to determine compliance with the negligible risk standard, were not included. Based on the results of the human health risk assessment, the pet crematorium is significantly below the negligible risk threshold of ARM 17.8.770. Further, such determination is made assuming 8,760 hours of operation per year of the crematory and conservative emissions estimations. The presence or absence of this facility in this area would not be expected to cause a discernable change in human health risks in this area.

Environmental effects unrelated to human health were not considered in determining compliance with the negligible risk standard, however, such effects are evaluated as required by the Montana Environmental Policy Act and an environmental assessment is attached.

VII. Taking or Damaging Implication Analysis

As required by 2-10-105, MCA, the Department conducted the following private property taking and damaging assessment.

YES	NO	
X		1. Does the action pertain to land or water management or environmental regulation affecting private real property or water rights?
	X	2. Does the action result in either a permanent or indefinite physical occupation of private property?
	X	3. Does the action deny a fundamental attribute of ownership? (ex.: right to exclude others, disposal of property)
	X	4. Does the action deprive the owner of all economically viable uses of the property?
	X	5. Does the action require a property owner to dedicate a portion of property or to grant an easement? [If no, go to (6)].
		5a. Is there a reasonable, specific connection between the government requirement and legitimate state interests?
		5b. Is the government requirement roughly proportional to the impact of the proposed use of the property?
	X	6. Does the action have a severe impact on the value of the property? (consider economic impact, investment-backed expectations, character of government action)
	X	7. Does the action damage the property by causing some physical disturbance with respect to the property in excess of that sustained by the public generally?
	X	7a. Is the impact of government action direct, peculiar, and significant?
	X	7b. Has government action resulted in the property becoming practically inaccessible, waterlogged or flooded?
	X	7c. Has government action lowered property values by more than 30% and necessitated the physical taking of adjacent property or property across a public way from the property in question?
	X	Takings or damaging implications? (Taking or damaging implications exist if YES is checked in response to question 1 and also to any one or more of the following questions: 2, 3, 4, 6, 7a, 7b, 7c; or if NO is checked in response to questions 5a or 5b; the shaded areas)

Based on this analysis, the Department determined there are no taking or damaging implications associated with this permit action.

VIII. Environmental Assessment

An environmental assessment, required by the Montana Environmental Policy Act, was completed for this project. A copy is attached.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Air, Energy & Mining Division
Air Quality Bureau
P.O. Box 200901, Helena, Montana 59620
(406) 444-3490

ENVIRONMENTAL ASSESSMENT (EA)

Issued To: M & E Enterprises, LLC, dba 406 Pet Crematory

Montana Air Quality Permit number (MAQP): 5194-00

EA Draft: **1/8/2018**

EA Final: **2/16/2018**

Permit Final: **3/6/2018**

1. *Legal Description of Site:* The physical address of this facility is 2807 Bozeman Ave., Helena, MT 59601 at Latitude 46.598579°, Longitude -111.989750°. The legal address is Section 28, Township 10 North, Range 3 West, in Lewis and Clark County, Montana.
2. *Description of Project:* 406 Pet Crematory intends to install and operate a pet crematory.
3. *Objectives of Project:* 406 Pet Crematory would offer pet cremation services.
4. *Alternatives Considered:* In addition to the proposed action, the Department also considered the “no-action” alternative. However, 406 Pet Crematory has submitted an application which meets all requirements of the Federal and Montana Clean Air Act. Therefore, the “no-action” alternative was eliminated from further consideration.
5. *A Listing of Mitigation, Stipulations, and Other Controls:* A list of enforceable conditions, including a BACT analysis, would be included in MAQP #5194-00.
6. *Regulatory Effects on Private Property:* The Department considered alternatives to the conditions imposed in this permit as part of the permit development. The Department determined that the permit conditions are reasonably necessary to ensure compliance with applicable requirements and demonstrate compliance with those requirements and do not unduly restrict private property rights.
7. *SUMMARY OF COMMENTS ON POTENTIAL PHYSICAL AND BIOLOGICAL EFFECTS:* The following comments have been prepared by the Department.

A. Terrestrial and Aquatic Life and Habitats

Based on the results of the human health risk assessment, the pet crematorium is significantly below the negligible risk threshold of the Administrative Rules of Montana 17.8.770. Further, such determination was made assuming 8,760 hours of operation per year of the crematory and conservative emissions estimations. The presence or absence of this facility in this area would not be expected to cause a discernable impact to terrestrial and aquatic life and habitats.

B. *Water Quality, Quantity and Distribution*

The project would take place within an existing developed area. Any impacts to water quality, quantity, or distribution in the area would be expected to be minor.

C. *Geology and Soil Quality, Stability and Moisture*

The project would take place within an existing developed area. Any impacts to geology, soil quality, stability, or moisture would be expected to be minor.

D. *Vegetation Cover, Quantity, and Quality*

The project would take place within an existing developed area. Emission would be very minor on an industrial scale. Impacts to vegetation cover, quantity, and quality in this area would be minor, if any discernable impact at all.

E. *Aesthetics*

The project would take place within an existing developed area. Emission would be very minor on an industrial scale. The operation would likely operate with no visible emissions, with permit requirements that under no circumstance may visible emissions exceed 10% opacity over any 6 minute period. Proper operation of the secondary combustion chamber, which would be required by MAQP #5194-00, would minimize any odors that might otherwise be expected. The facility would be constructed in an already developed area south of and adjacent to the Helena Regional Airport. No more than minor impacts to aesthetics would be expected.

F. *Air Quality*

The project would be an extremely small source of conventional air pollutant emissions on an industrial scale. As a project subject to the Human Health Risk Assessment requirements of the Administrative Rules of Montana 17.8.770, the air toxics from this source were assessed and found to be significantly below the negligible risk threshold. Impacts to air quality, if any discernable amount at all, would be expected to be minor.

G. *Unique Endangered, Fragile, or Limited Environmental Resources*

The project would be an extremely small source of conventional air pollutant emissions on an industrial scale. As a project subject to the Human Health Risk Assessment requirements of the Administrative Rules of Montana 17.8.770, the air toxics from this source were assessed and found to be significantly below the negligible risk threshold. Impacts to air quality, if any discernable amount at all, would be expected to be minor. As described in the sections above, impacts to terrestrials, aquatic life and habitats, water quality and quantity, vegetation, and air quality would be expected to be, at most, minor. The source would be located south of and adjacent to the Helena Regional Airport. Any impacts to unique endangered, fragile, or limited environmental resources present in the area would be expected to be minor.

H. *Sage Grouse Executive Order*

The Department recognizes that the site location is not within a Greater Sage Grouse Area as defined by Executive Order No. 12-2015.

I. *Demands on Environmental Resource of Water, Air and Energy*

As described above, impacts to water or air would be expected to be minor. MAQP #5194-00 would require that the pet crematory be equipped with a secondary chamber and auxiliary burners. The primary and secondary chamber burners combined would require a maximum 3.5 million British thermal units per hour firing rate. The burners would be fired on natural gas or propane. This is a very small energy need on an industrial basis which would be utilized on an intermittent basis. Demands on water, air and energy would be expected to be minor.

J. *Historical and Archaeological Sites*

The project would be constructed in an existing and developed area, adjacent to existing building structure. The project location is adjacent and south of the Helena Regional Airport. No impacts to historical or archaeological sites would be expected.

K. *Cumulative and Secondary Impacts*

No more than minor impacts to the individual physical and biological considerations above would be expected. No more than minor cumulative and secondary impacts would be expected as a result of issuance of MAQP #5194-00.

8. *SUMMARY OF COMMENTS ON POTENTIAL ECONOMIC AND SOCIAL EFFECTS:*

The following comments have been prepared by the Department.

A. *Social Structures and Mores*

The project is to be located in an area already developed for such operations, south of and adjacent to the Helena Regional Airport. Impacts to social structures and mores, if any at all, would be minor.

B. *Cultural Uniqueness and Diversity*

The project is to be located in an area already developed for such operations, south of and adjacent to the Helena Regional Airport. Impacts to cultural uniqueness and diversity, if any at all, would be minor.

C. *Local and State Tax Base and Tax Revenue*

No more than a minor positive impact to local and state tax base and revenue would be expected as a result of issuance of MAQP #5194-00.

D. *Agricultural or Industrial Production*

The project is to be located in an area already developed for such operations, south of and adjacent to the Helena Regional Airport. Any impacts to agricultural or industrial production would be expected to be minor.

E. *Human Health*

The project would be an extremely small source of conventional air pollutant emissions on an industrial scale. As a project subject to the Human Health Risk Assessment requirements of the Administrative Rules of Montana 17.8.770, the air toxics from this proposed source were assessed and found to be significantly below the negligible risk threshold. Impacts to human health would be expected to be minor.

F. *Access to and Quality of Recreational and Wilderness Activities*

The source would be located south of and adjacent to the Helena Regional Airport in an already developed area. As previously described, no more than a minor impact to aesthetics would be expected. No more than a minor impact to quality of recreational and wilderness activities would be expected.

G. *Quantity and Distribution of Employment*

The project would not be expected to have any more than minor impact on the quantity and distribution of employment.

H. *Distribution of Population*

The project would not be expected to have any more than minor impact on the distribution of population. The project is to be constructed adjacent and south of the Helena Regional Airport in an area already developed for such purposes.

I. *Demands for Government Services*

Issuance of MAQP #5194-00 would require an MAQP and ongoing compliance checks with the terms and conditions of the permit and underlying rules. The source would be a minor source of emissions and would pose no more than a minor impact on demands for government services.

J. *Industrial and Commercial Activity*

The project would be an extremely small source of conventional air pollutant emissions on an industrial scale. Any increase in traffic associated with the business operations of this facility would be expected to be very minor.

K. *Locally Adopted Environmental Plans and Goals*

The Department is not aware of any locally adopted environmental plans and goals in which issuance of MAQP #5194 would affect. The permit would be issued in accordance with federal and state clean air act requirements including the toxics review required by the Administrative Rules of Montana 17.8.770.

L. *Cumulative and Secondary Impacts*

The Department found no more than minor impacts to the individual economic and social considerations above. No more than minor cumulative and secondary impacts would be expected.

Recommendation: No Environmental Impact Statement (EIS) is required.

The current permitting action is for the construction and operation of a pet crematorium. MAQP #5194-00 would include conditions and limitations to ensure the facility will operate in compliance with all applicable air quality rules and regulations. In addition, there are no significant impacts associated with this proposal.

Other groups or agencies contacted or which may have overlapping jurisdiction: Montana Historical Society – State Historic Preservation Office, Natural Resource Information System – Montana Natural Heritage Program – Montana Sage Grouse Conservation Program

Individuals or groups contributing to this EA: Department of Environmental Quality – Air Quality Bureau

EA prepared by: Shawn Juers

Date: 12/18/2017