

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

October 18, 2018

PERMIT TO INSTALL
310-05D

ISSUED TO
Faithful Companion Memorials, Inc.

LOCATED AT
4900 Fernlee Avenue
Royal Oak, Michigan

IN THE COUNTY OF
Oakland

STATE REGISTRATION NUMBER
N5753

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203:

October 4, 2018

DATE PERMIT TO INSTALL APPROVED:

October 18, 2018

SIGNATURE:

DATE PERMIT VOIDED:

SIGNATURE:

DATE PERMIT REVOKED:

SIGNATURE:

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO _{2e}	Carbon Dioxide Equivalent
CFR	Code of Federal Regulations	dscf	Dry standard cubic foot
COM	Continuous Opacity Monitoring	dscm	Dry standard cubic meter
Department/ department	Michigan Department of Environmental Quality	°F	Degrees Fahrenheit
EU	Emission Unit	gr	Grains
FG	Flexible Group	HAP	Hazardous Air Pollutant
GACS	Gallons of Applied Coating Solids	Hg	Mercury
GC	General Condition	hr	Hour
GHGs	Greenhouse Gases	HP	Horsepower
HVLP	High Volume Low Pressure*	H ₂ S	Hydrogen Sulfide
ID	Identification	kW	Kilowatt
IRSL	Initial Risk Screening Level	lb	Pound
ITSL	Initial Threshold Screening Level	m	Meter
LAER	Lowest Achievable Emission Rate	mg	Milligram
MACT	Maximum Achievable Control Technology	mm	Millimeter
MAERS	Michigan Air Emissions Reporting System	MM	Million
MAP	Malfunction Abatement Plan	MW	Megawatts
MDEQ	Michigan Department of Environmental Quality	NMOC	Non-methane Organic Compounds
MSDS	Material Safety Data Sheet	NO _x	Oxides of Nitrogen
NA	Not Applicable	ng	Nanogram
NAAQS	National Ambient Air Quality Standards	PM	Particulate Matter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM ₁₀	Particulate Matter equal to or less than 10 microns in diameter
NSPS	New Source Performance Standards	PM _{2.5}	Particulate Matter equal to or less than 2.5 microns in diameter
NSR	New Source Review	pph	Pounds per hour
PS	Performance Specification	ppm	Parts per million
PSD	Prevention of Significant Deterioration	ppmv	Parts per million by volume
PTE	Permanent Total Enclosure	ppmw	Parts per million by weight
PTI	Permit to Install	psia	Pounds per square inch absolute
RACT	Reasonable Available Control Technology	psig	Pounds per square inch gauge
ROP	Renewable Operating Permit	scf	Standard cubic feet
SC	Special Condition	sec	Seconds
SCR	Selective Catalytic Reduction	SO ₂	Sulfur Dioxide
SNCR	Selective Non-Catalytic Reduction	TAC	Toxic Air Contaminant
SRN	State Registration Number	Temp	Temperature
TEQ	Toxicity Equivalence Quotient	THC	Total Hydrocarbons
USEPA/EPA	United States Environmental Protection Agency	tpy	Tons per year
VE	Visible Emissions	µg	Microgram
		µm	Micrometer or Micron
		VOC	Volatile Organic Compounds
		yr	Year

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to R 336.1210, operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to R 336.1219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R 336.1301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R 336.1303. **(R 336.1301)**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.

12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in R 336.1370(2). **(R 336.1370)**

13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EU-CREMATORY1	Matthews Cremation Division Power Pak Jr. (IE43-PPJR) Fuel Type: natural gas Maximum Charge: 300 Pounds Burn Rate: 75 Pounds/Hour Charge Type: ANIMAL "PET" REMAINS	Nov. 29, 2005	NA
EU-CREMATORY2	Matthews Cremation Division Power Pak II (IE43-PPII) Fuel Type: natural gas Maximum Charge: 750 Pounds Burn Rate: 150 Pounds/Hour Charge Type: ANIMAL "PET" REMAINS	May 31, 2007	NA
EU-CREMATORY5	Matthews Cremation Division IE43-IEB16 Fuel Type: natural gas Maximum Charge: 300 Pounds Burn Rate: 100 Pounds/Hour Charge Type: ANIMAL "PET" REMAINS	July 18, 2011	FG-IEB16
EU-CREMATORY6	Matthews Cremation Division IE43-IEB16 Multi-chambered incinerator with afterburner Fuel Type: natural gas Maximum Charge: 300 Pounds Burn Rate: 100 Pounds/Hour Charge Type: ANIMAL "PET" REMAINS	August 13, 2014	FG-IEB16
EU-CREMATORY7	Matthews Cremation Division IE43-IEB16 Multi-chambered incinerator with afterburner Fuel Type: natural gas Maximum Charge: 300 Pounds Burn Rate: 100 Pounds/Hour Charge Type: ANIMAL "PET" REMAINS	TBD	FG-IEB16
EU-CREMATORY8	Matthews Cremation Division IE43-IEB16 Multi-chambered incinerator with afterburner Fuel Type: natural gas Maximum Charge: 300 Pounds Burn Rate: 100 Pounds/Hour Charge Type: ANIMAL "PET" REMAINS	TBD	FG-IEB16

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

The following conditions apply to:
EU-CREMATORY1

DESCRIPTION: Matthews Cremation Division
 Power Pak Jr. (IE43-PPJR)
 Fuel Type: natural gas
 Maximum Charge: 300 Pounds
 Burn Rate: 75 Pounds/Hour
 Charge Type: ANIMAL "PET" REMAINS

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: Secondary combustion chamber with afterburner.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.20 lb /1,000 lbs of gas ^a	Hourly	EU-CREMATORY1	GC 13	R 336.1331
^a Calculated to 50% excess air.					

II. MATERIAL LIMITS

1. The permittee shall not burn any waste in EU-CREMATORY1 other than the following wastes: **(40 CFR 60.51c)**

Pathological wastes—As defined in the federal Standards of Performance for New Stationary Sources, 40 CFR 60.51c, pathological waste means waste materials consisting of only human or animal remains, anatomical parts, and/or tissue; the bags/containers used to collect and transport the waste material; and animal bedding. **This emission unit shall burn only ANIMAL pathological waste and associated materials.**

2. The permittee shall not charge more than 300 pounds per charge in EU-CREMATORY1, where charge is the total weight of the material placed in the incinerator to be combusted. **(R 336.1301, R 336.1331)**
3. The permittee shall not burn any fuel in EU-CREMATORY1 other than pipeline natural gas. **(R 336.1224, R 336.1225, R 336.1702)**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not combust waste in EU-CREMATORY1 unless a minimum temperature of 1600°F and a minimum retention time of 1.0 seconds in the secondary combustion chamber are maintained. **(R 336.1301, R 336.1331, R 336.1910)**
2. The incinerator shall be installed, maintained, and operated in a satisfactory manner to control emissions from EU-CREMAOTRY1. A list of recommended operating and maintenance procedures is specified in Appendix A. **(R 336.1301, R 336.1331, R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate any crematory in EU-CREMATORY1 unless the secondary combustion chamber with afterburner is installed, maintained, and operated in a satisfactory manner. **(R 336.1301, R 336.1331, R 336.1901, R 336.1910)**
2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor and record the temperature in the secondary combustion chamber of EU-CREMATORY1 on a continuous basis. **(R 336.1301, R 336.1331, R 336.1901)**
3. The permittee shall maintain a scale at the facility for the purpose of verifying the charge weight as required by SC II.2. **(R 336.1301, R 336.1331)**
4. Within 180 days after the issuance of this permit the permittee shall equip and maintain EU-CREMATORY1 with its own natural gas regulator. **(R 336.1301, R 336.1331, R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required records in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1301, R 336.1331, 40 CFR 60.50c(b))**
2. The permittee shall monitor and record the temperature in the secondary combustion chamber of EU-CREMATORY1 on a continuous basis. **(R 336.1301, R 336.1331, R 336.1901)**
3. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, daily records of the time (duration of burn), description and weight of waste combusted in EU-CREMATORY1, as required by SC II.1 and SC II.2. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205, R 336.1331)**
4. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, records on a calendar quarter basis of the periods of time when only pathological waste is burned, as required by 40 CFR 60.50c(b). The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.50c(b))**
5. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, secondary combustion chamber temperature records for EU-CREMATORY1, as required by SC IV.2. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1301, R 336.1331, R 336.1901)**
6. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, a record of all service, maintenance and equipment inspections for EU-CREMATORY1. The record shall include the description, reason, date and time of the service, maintenance or inspection. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1301, R 336.1331, R 336.1910)**

VII. REPORTING

1. The permittee shall submit a notification to the AQD District Supervisor stating the date of installation of the natural gas regulator for EU-CREMATORY1 within 30 days after the installation of the natural gas regulator. **(R 336.1201(3))**

VIII. STACK/VENT RESTRICTIONS

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-CREMATORY1	15	25	R 336.1901, 40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENTS

1. Within 30 days of issuance of this permit, the permittee shall label EU-CREMATORY1 with the emission unit ID and name used at the facility according to a method acceptable to the AQD District Supervisor. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed. **(R 336.1201)**

The following conditions apply to:
EU-CREMATORY2

DESCRIPTION: Matthews Cremation Division
 Power Pak II (IE43-PPII)
 Fuel Type: natural gas
 Maximum Charge: 750 Pounds
 Burn Rate: 150 Pounds/Hour
 Charge Type: ANIMAL "PET" REMAINS

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: Secondary combustion chamber with afterburner.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.20 lb /1,000 lbs of gas ^a	Hourly	EU-CREMATORY2	GC 13	R 336.1331
^a Calculated to 50% excess air.					

II. MATERIAL LIMITS

1. The permittee shall not burn any waste in EU-CREMATORY2 other than the following wastes: **(40 CFR 60.51c)**

Pathological wastes—As defined in the federal Standards of Performance for New Stationary Sources, 40 CFR 60.51c, pathological waste means waste materials consisting of only human or animal remains, anatomical parts, and/or tissue; the bags/containers used to collect and transport the waste material; and animal bedding. **This emission unit shall burn only ANIMAL pathological waste and associated materials.**

2. The permittee shall not charge more than 750 pounds per charge in EU-CREMATORY2, where charge is the total weight of the material placed in the incinerator to be combusted. **(R 336.1301, R 336.1331)**
3. The permittee shall not burn any fuel in EU-CREMATORY2 other than pipeline natural gas. **(R 336.1224, R 336.1225, R 336.1702, R 336.1901)**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not combust waste in EU-CREMATORY2 unless a minimum temperature of 1600°F and a minimum retention time of 1.0 seconds in the secondary combustion chamber are maintained. **(R 336.1301, R 336.1331, R 336.1910)**
2. The incinerator shall be installed, maintained, and operated in a satisfactory manner to control emissions from EU-CREMAOTRY2. A list of recommended operating and maintenance procedures is specified in Appendix A. **(R 336.1301, R 336.1331, R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate any crematory in EU-CREMATORY2 unless the secondary combustion chamber with afterburner is installed, maintained, and operated in a satisfactory manner. **(R 336.1301, R 336.1331, R 336.1901, R 336.1910)**
2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor and record the temperature in the secondary combustion chamber of EU-CREMATORY2 on a continuous basis. **(R 336.1301, R 336.1331, R 336.1901)**
3. The permittee shall maintain a scale at the facility for the purpose of verifying the charge weight as required by SC II.2. **(R 336.1301, R 336.1331)**
4. Within 180 days after the issuance of this permit the permittee shall equip and maintain EU-CREMATORY2 with its own natural gas regulator. **(R 336.1301, R 336.1331, R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required records in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1301, R 336.1331, 40 CFR 60.50c(b))**
2. The permittee shall monitor and record the temperature in the secondary combustion chamber of EU-CREMATORY2 on a continuous basis. **(R 336.1301, R 336.1331, R 336.1901)**
3. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, daily records of the time (duration of burn), description and weight of waste combusted in EU-CREMATORY2, as required by SC II.1 and SC II.2. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205, R 336.1331)**
4. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, records on a calendar quarter basis of the periods of time when only pathological waste is burned, as required by 40 CFR 60.50c(b). The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.50c(b))**
5. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, secondary combustion chamber temperature records for EU-CREMATORY2, as required by SC IV.2. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1301, R 336.1331, R 336.1901)**
6. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, a record of all service, maintenance and equipment inspections for EU-CREMATORY2. The record shall include the description, reason, date and time of the service, maintenance or inspection. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1301, R 336.1331, R 336.1910)**

VII. REPORTING

1. The permittee shall submit a notification to the AQD District Supervisor stating the date of installation of the natural gas regulator for EU-CREMATORY2 within 30 days after the installation of the natural gas regulator. **(R 336.1201(3))**

VIII. STACK/VENT RESTRICTIONS

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-CREMATORY2	20	24	R 336.1901, 40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENTS

1. Within 30 days of issuance of this permit, the permittee shall label EU-CREMATORY2 with the emission unit ID and name used at the facility according to a method acceptable to the AQD District Supervisor. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed. **(R 336.1201)**

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-IEB16	Four Matthews Cremation Division IE43-IEB16 cremation units. All have these specifications: Matthews Cremation Division IE43-IEB16 Multi-chambered incinerator with afterburner Fuel Type: natural gas Maximum Charge: 300 Pounds Burn Rate: 100 Pounds/Hour Charge Type: ANIMAL "PET" REMAINS	EU-CREMATORY5 EU-CREMATORY6 EU-CREMATORY7 EU-CREMATORY8

The following conditions apply to:
FG-IEB16

DESCRIPTION: Four Matthews Cremation Division IE43-IEB16 cremation units. All have these specifications:

Matthews Cremation Division
 IE43-IEB16
 Multi-chambered incinerator with afterburner
 Fuel Type: natural gas
 Maximum Charge: 300 Pounds
 Burn Rate: 100 Pounds/Hour
 Charge Type: ANIMAL "PET" REMAINS

Emission Units: EU-CREMATORY5, EU-CREMATORY6, EU-CREMATORY7, EU-CREMATORY8

POLLUTION CONTROL EQUIPMENT: Secondary combustion chamber with afterburner.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.20 lb /1,000 lbs of gas ^a	Hourly	EU-CREMATORY5 EU-CREMATORY6 EU-CREMATORY7 EU-CREMATORY8	GC 13	R 336.1331
^a Calculated to 50% excess air.					

II. MATERIAL LIMITS

- The permittee shall not burn any waste in FG-IEB16 other than the following: **(40 CFR 60.51c)**

Pathological wastes—As defined in the federal Standards of Performance for New Stationary Sources, 40 CFR 60.51c, pathological waste means waste materials consisting of only human or animal remains, anatomical parts, and/or tissue; the bags/containers used to collect and transport the waste material; and animal bedding. **These emission units shall burn only ANIMAL pathological waste and associated materials.**

2. The permittee shall not combust more than 300 pounds per charge in FG-IEB16, where charge is the total weight of the material placed in the incinerator to be combusted. **(R 336.1301, R 336.1331)**
3. The permittee shall not burn any fuel in FG-IEB16 other than natural gas. **(R 336.1224, R 336.1225, R 336.1702)**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not combust waste in any unit in FG-IEB16 unless a minimum temperature of 1600°F and a minimum retention time of 1.0 seconds in the respective secondary combustion chamber are maintained. **(R 336.1301, R 336.1331, R 336.1910)**
2. The incinerator shall be installed, maintained, and operated in a satisfactory manner to control emissions from EU-CREMATORY7. A list of recommended operating and maintenance procedures is specified in Appendix A. **(R 336.1301, R 336.1331, R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate any crematory in FG-IEB16 unless its respective secondary combustion chamber with afterburner is installed, maintained, and operated in a satisfactory manner. **(R 336.1301, R 336.1331, R 336.1901, R 336.1910)**
2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor and record the temperature in the secondary combustion chamber of each crematory in FG-IEB16 on a continuous basis. **(R 336.1301, R 336.1331, R 336.1901)**
3. The permittee shall maintain a scale at the facility for the purpose of verifying the charge weight as required by SC II.2. **(R 336.1301, R 336.1331)**
4. Within 180 days after the issuance of this permit the permittee shall equip and maintain EU-CREMATORY5 and EU-CREMATORY6 with their own natural gas regulator. **(R 336.1301, R 336.1331, R 336.1910)**
5. The permittee shall equip and maintain EU-CREMATORY7 and EU-CREMATORY8 with their own natural gas regulator. **(R 336.1301, R 336.1331, R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required records in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1301, R 336.1331, 40 CFR 60.50c(b))**
2. The permittee shall monitor and record the temperature in the secondary combustion chamber in each unit of FG-IEB16 on a continuous basis. **(R 336.1301, R 336.1331)**
3. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, daily records of the time (duration of burn), description and weight of charge combusted in each crematory in FG-IEB16, as required by SC II.1 and SC II.2. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1301, R 336.1331)**

4. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, records on a calendar quarter basis of the periods of time when only pathological waste is burned in each incinerator as required by 40 CFR 60.50c(b). The records shall be kept on file for a period of five years and made available to the Air Quality Division upon request. **(40 CFR 60.50c(b))**
5. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, secondary combustion chamber temperature records for each crematory in FG-IEB16, as required by SC VI.2. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1301, R 336.1331)**
6. The permittee shall keep, in a manner satisfactory to the AQD District Supervisor, a record of all service, maintenance and equipment inspections for each crematory in FG-IEB16. The record shall include the description, reason, date and time of the service, maintenance or inspection. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1301, R 336.1331, R 336.1910)**

VII. REPORTING

1. The permittee shall submit a notification to the AQD District Supervisor stating the date of installation for each natural gas regulator for EU-CREMATORY5 and EU-CREMATORY6 within 30 days after the installation of the natural gas regulator on each unit. **(R 336.1201(3))**

VIII. STACK/VENT RESTRICTIONS

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-CREMATORY5	15	25	R 336.1901, 40 CFR 52.21 (c) & (d)
2. SV-CREMATORY6	15	25	R 336.1901, 40 CFR 52.21(c)&(d)
3. SV-CREMATORY7	15	25	R 336.1901, 40 CFR 52.21(c)&(d)
4. SV-CREMATORY8	15	25	R 336.1901, 40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENTS

1. Within 30 days of issuance of this permit, the permittee shall label each unit in FG-IEB16 with the emission unit ID and name used at the facility according to a method acceptable to the AQD District Supervisor. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed. **(R 336.1201)**

Footnotes:

¹This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

APPENDIX A
Incinerator Operation and Maintenance Guidelines

1. Designate a trained operator for the unit and make that person responsible for compliance with the air pollution control requirements.
2. Clean grates before each day's operation (more often if necessary), and dispose of the ashes properly.
3. Do not combust waste until the secondary combustion chamber (afterburner) is at or above the minimum required temperature. This temperature must be maintained for the duration of the burn cycle.
4. Do not overload the incinerator. Stay within the given loading rates and follow the manufacturer's instructions.
5. Schedule charges to minimize opening the charging door as infrequently as possible. Opening the charging door lets cold air in and quenches the fire causing smoke.
6. Burn only the type of wastes that the incinerator has been approved to burn. Follow the manufacturer's instructions to maximize the efficiency of the unit, and to properly burn the waste(s).
7. Keep the combustion air adjusted according to the manufacturer's instructions.
8. Observe the stack frequently and adjust the operation as necessary to eliminate smoke and fly ash.
9. Post a copy of the manufacturer's manual and this Guideline near the incinerator.
10. Make quarterly inspections to check and service all of the equipment. If a qualified person is not available for proper inspections, a service contract with a reputable manufacturer is advisable.
11. Follow manufacturer's operation and maintenance guidelines.