



Cremation Division

11/18/15

Douglas C. Sensel
Helsley-Johnson Funeral Home, Inc
95 Union St.
Berkeley Springs, WV 25411



Dear Mr. Sensel:

Enclosed are the required forms and additional information for the air quality permit for your new Power Pak I human cremator. All the technical data in the forms are completed. The highlighted areas on the forms indicate where information is needed from you. Please fill in the requested information where necessary. You will need to attach the following to the application:

- The Business Certificate requested on page 4 of the application for permit. Insert this as Attachment A.
- A street map of the surrounding area. Insert this as Attachment B.
- The appropriate authority forms (I have included a few different ones). Insert this as Attachment R.
- A plot plan as described on page 4 of the application for permit. I have included a form that you can use for this if you wish. Insert this as Attachment E.

When the forms and attachments are completed and signed, please make four photocopies of all the information. Two copies plus the original signature copy in blue ink need to be submitted to the DEP to the following address:

**Assistant Director for Permitting
WV Department of Environmental Protection
Division of Air Quality
601 57th Street, SE
Charleston, WV 25304**

The fourth copy is for your records. This application has a \$1,000.00 minimum fee that needs to be included with the application. Please include as well a short cover letter describing your proposal to establish a crematory.

The WV DEP requires for you to place a legal ad in the newspaper. Details on how to prepare this ad can be found on the Legal Advertisement Example sheet. A sample legal ad sheet is attached to be used as reference.

In addition to obtaining the air pollution permit, you should be aware that approvals might also be required from other authorities. Permit(s) from your local building, gas, and electrical authorities may be necessary. Your contractor should obtain these.

If you have any additional questions, please feel free to contact us at 1-800-327-2831.

Sincerely,

Michael Tricoche
Engineer
Enclosures





To find the latitude and longitude of a point Click on the map, Drag the marker, or enter the...

Address: 95 Union St, Berkeley Springs, WV 254

Map Center: [Wikipedia/Wikivoyage Places of Interest](#) - [Get Address](#) - [Land Plat Size](#)

Grainger®'s Official Site

Search Grainger®'s Online Catalog. Thank You For Choosing Grainger!
grainger.com

Latitude and Longitude of a Point



**PACKAGES
STARTING
AT
\$79**

SELECT YOUR GAME



Google

Map data ©2015 Google Imagery ©2015, DigitalGlobe, GeoEye, IGN, GeoEye, USDA F, Report a map error

Get the Latitude and Longitude of a Point

When you click on the map, move the marker or enter an address the latitude and longitude coordinates of the point are inserted in the boxes below.

Latitude:
Longitude:

	Degrees	Minutes	Seconds
Latitude:	<input type="text" value="39"/>	<input type="text" value="37"/>	<input type="text" value="45.3072"/>
Longitude:	<input type="text" value="-78"/>	<input type="text" value="13"/>	<input type="text" value="31.5048"/>

Show Point from Latitude and Longitude

Use this if you know the latitude and longitude coordinates of a point and want to see where on the map the point is.

Use: + for N Lat or E Long - for S Lat or W Long.

Example: +40.689060 -74.044636

Note: Your entry should not have any embedded spaces.

Decimal Deg. Latitude:

Decimal Deg. Longitude:

Example: +34 40 50.12 for 34N 40' 50.12"

Degrees Minutes Seconds

Latitude:

Longitude:



Site Map

Chuck Taylor Toolbox

Geographic/UTM Coordinate Converter

You can convert between geographic coordinates and Universal Transverse Mercator (UTM) coordinates using this form.

Note: This is a JavaScript-powered form. If you have difficulties using this form, check your browser's settings to make sure you have enabled JavaScript.

Programmers: The JavaScript source code in this document may be copied and reused without restriction.

If you have a Java 1.1-compliant browser, and especially if you need to use an ellipsoid model other than WGS84, you may want to try the [Coordinate and Datum Transformations tool](#).

Geographic (degrees decimal)	To/From	UTM
lon -78.225418	<input type="button" value=">>"/>	x (easting) 738130.9086538942
lat 39.629252	<input type="button" value="<<"/>	y (northing) 4390288.256466082
		zone 17
		hemisphere <input checked="" type="radio"/> N <input type="radio"/> S

Geographic coordinates are entered and displayed in decimal degrees. Negative numbers indicate West longitudes and South latitudes. UTM coordinates are entered and displayed in meters. The ellipsoid model used for computations is WGS84.

Chuck Taylor -- ([Copyright](#)) -- ([Contact](#))

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY**

45CSR13, 45CSR14, AND 45CSR19 PERMIT FORMS

GENERAL INSTRUCTIONS

Enclosed are forms and related information to be used in completing an application for a WV Rule 13 (45CSR13) permit. The enclosed checklist lists all required information for an application to be deemed administratively complete.

Application forms are to be completed for any facility which emits the following regulated pollutants: Carbon Monoxide (CO), Lead, Nitrogen Oxides (NO_x), Particulate Matter (PM), Particulate Matter less than 10 microns (PM₁₀), Sulfur Dioxide (SO₂), and Volatile Organic Compounds (VOCs) not listed as Hazardous Air Pollutants (HAPs) or Toxic Air Pollutants (TAPs) in accordance with Section §112 of the Clean Air Act or Rule 45CSR27.

As of January 2, 2011, pursuant to actions taken by the USEPA, Greenhouse Gases (GHGs) became subject to regulations for the purposes of major New Source Review (NSR) permitting. Go to <http://www.dep.wv.gov/daq/permitting/Documents/PotentialMajorSourceApplicabilityofGHGs.pdf> for details.

If assistance is needed in selecting the appropriate form, call (304) 926-0475 and ask to speak to a member of the Permitting Staff.

Per WV Rule 22 (45CSR22) filed on May 6, 1991, a minimum fee of \$1,000 must be submitted for each 45CSR13 permit application or \$300 for each Class II administrative update application filed with the West Virginia Division of Air Quality. Other additional charges may apply, depending on the nature of the application as outlined in Section 3.4.b. of Regulation 22 and shown below:

NSPS Requirements (40CFR60)	\$1,000
NESHAPS or Toxic Air Pollutant Requirements (40CFR 61, 63 and 45CSR27)	\$2,500
PSD or Nonattainment Review (45CSR14 and 45CSR19):	
(1) New Major Sources or	\$10,000
(2) Major Modifications	\$ 5,000

For Class II administrative updates and relocation and temporary permits, the applicant must place a Class I legal advertisement at the time the application is submitted, as well as provide proof of notification of the county clerk.

It may be beneficial to you, the applicant, to contact the Secretary of State's Office at (304) 558-6000 and request from the Administrative Law Section a copy of 45CSR13, 45CSR22 and 45CSR31 (<http://www.state.wv.us/csr/>).

The application shall be submitted to the DAQ in triplicate. Please see the **Precautionary Notice — Claim of Confidentiality**, for information entitled to confidential treatment as provided by West Virginia Legislative Rule 45CSR31, entitled “Confidential Information.”

If you have any questions concerning the forms, please contact a member of the permit work group at (304) 926-0475.

The completed permit applications should be sent to:

Assistant Director for Permitting
WV Department of Environmental Protection
Division of Air Quality
601 57th Street, SE
Charleston, WV 25304



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

601 57th Street, SE
Charleston, WV 25304
(304) 926-0475
www.dep.wv.gov/daq

**APPLICATION FOR NSR PERMIT
AND
TITLE V PERMIT REVISION
(OPTIONAL)**

PLEASE CHECK ALL THAT APPLY TO NSR (45CSR13) (IF KNOWN):

- CONSTRUCTION MODIFICATION RELOCATION
 CLASS I ADMINISTRATIVE UPDATE TEMPORARY
 CLASS II ADMINISTRATIVE UPDATE AFTER-THE-FACT

PLEASE CHECK TYPE OF 45CSR30 (TITLE V) REVISION (IF ANY):

- ADMINISTRATIVE AMENDMENT MINOR MODIFICATION
 SIGNIFICANT MODIFICATION

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS ATTACHMENT S TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant (as registered with the WV Secretary of State's Office): Douglas C. Sensel		2. Federal Employer ID No. (FEIN): 47-5275903	
3. Name of facility (if different from above): Mountain State Crematory, LLC		4. The applicant is the: <input type="checkbox"/> OWNER <input type="checkbox"/> OPERATOR <input checked="" type="checkbox"/> BOTH	
5A. Applicant's mailing address: 95 Union Street Berkeley Springs, WV 25411-1855		5B. Facility's present physical address: 95 Union Street Berkeley Springs, WV 25411-1855	
6. West Virginia Business Registration. Is the applicant a resident of the State of West Virginia? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - If YES, provide a copy of the Certificate of Incorporation/Organization/Limited Partnership (one page) including any name change amendments or other Business Registration Certificate as Attachment A. - If NO, provide a copy of the Certificate of Authority/Authority of L.L.C./Registration (one page) including any name change amendments or other Business Certificate as Attachment A.			
7. If applicant is a subsidiary corporation, please provide the name of parent corporation: Not applicable			
8. Does the applicant own, lease, have an option to buy or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - If YES, please explain: Applicant owns property - If NO, you are not eligible for a permit for this source.			
9. Type of plant or facility (stationary source) to be constructed, modified, relocated, administratively updated or temporarily permitted (e.g., coal preparation plant, primary crusher, etc.): Human Crematory		10. North American Industry Classification System (NAICS) code for the facility: 812220	
11A. DAQ Plant ID No. (for existing facilities only): -		11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only):	

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.



12A.

- For **Modifications, Administrative Updates** or **Temporary permits** at an existing facility, please provide directions to the *present location* of the facility from the nearest state road;
- For **Construction** or **Relocation permits**, please provide directions to the *proposed new site location* from the nearest state road. Include a **MAP** as **Attachment B**.

See attachment B

12.B. New site address (if applicable):
95 Union Street

12C. Nearest city or town:
Berkeley Springs

12D. County:
Morgan

12.E. UTM Northing (KM): 4390.288

12F. UTM Easting (KM): 738.130

12G. UTM Zone: 17N

13. Briefly describe the proposed change(s) at the facility:
Install one human cremation unit

14A. Provide the date of anticipated installation or change: / /
- If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: 08 / 18 / 2016

14B. Date of anticipated Start-Up if a permit is granted:
09 / 01 / 2016

14C. Provide a **Schedule** of the planned **Installation of/Change** to and **Start-Up** of each of the units proposed in this permit application as **Attachment C** (if more than one unit is involved).

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:
Hours Per Day 12 Days Per Week 6 Weeks Per Year 52

16. Is demolition or physical renovation at an existing facility involved? YES NO

17. **Risk Management Plans.** If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your **Risk Management Plan (RMP)** to U. S. EPA Region III.

18. **Regulatory Discussion.** List all Federal and State air pollution control regulations that you believe are applicable to the proposed process (*if known*). A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance (*if known*). Provide this information as **Attachment D**.

Section II. Additional attachments and supporting documents.

19. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

20. Include a **Table of Contents** as the first page of your application package.

21. Provide a **Plot Plan**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as **Attachment E** (Refer to **Plot Plan Guidance**).

- Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).

22. Provide a **Detailed Process Flow Diagram(s)** showing each proposed or modified emissions unit, emission point and control device as **Attachment F**.

23. Provide a **Process Description** as **Attachment G**.

- Also describe and quantify to the extent possible all changes made to the facility since the last permit review (*if applicable*).

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H**.

– For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I**.

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J**.

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K**.

28. Check all applicable **Emissions Unit Data Sheets** listed below:

- | | | |
|--|--|--|
| <input type="checkbox"/> Bulk Liquid Transfer Operations | <input type="checkbox"/> Haul Road Emissions | <input type="checkbox"/> Quarry |
| <input type="checkbox"/> Chemical Processes | <input type="checkbox"/> Hot Mix Asphalt Plant | <input type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities |
| <input type="checkbox"/> Concrete Batch Plant | <input type="checkbox"/> Incinerator | <input type="checkbox"/> Storage Tanks |
| <input type="checkbox"/> Grey Iron and Steel Foundry | <input type="checkbox"/> Indirect Heat Exchanger | |
| <input type="checkbox"/> General Emission Unit, specify | | |

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L**.

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

- | | | |
|---|---|--|
| <input type="checkbox"/> Absorption Systems | <input type="checkbox"/> Baghouse | <input type="checkbox"/> Flare |
| <input type="checkbox"/> Adsorption Systems | <input type="checkbox"/> Condenser | <input type="checkbox"/> Mechanical Collector |
| <input type="checkbox"/> Afterburner | <input type="checkbox"/> Electrostatic Precipitator | <input type="checkbox"/> Wet Collecting System |

Other Collectors, specify

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M**.

30. Provide all **Supporting Emissions Calculations** as **Attachment N**, or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O**.

➤ Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and **Example Legal Advertisement** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33. **Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?

YES NO

➤ If YES, identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "**Precautionary Notice – Claims of Confidentiality**" guidance found in the **General Instructions** as **Attachment Q**.

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

- | | |
|--|---|
| <input type="checkbox"/> Authority of Corporation or Other Business Entity | <input type="checkbox"/> Authority of Partnership |
| <input type="checkbox"/> Authority of Governmental Agency | <input type="checkbox"/> Authority of Limited Partnership |

Submit completed and signed **Authority Form** as **Attachment R**.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

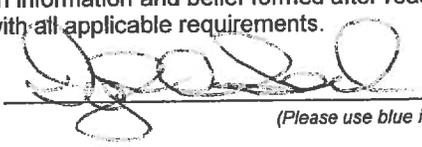
Certification of Truth, Accuracy, and Completeness

I, the undersigned **Responsible Official** / **Authorized Representative**, hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE _____



(Please use blue ink)

DATE: _____

6/16/16

(Please use blue ink)

35B. Printed name of signee: Douglas C. Sensei

35C. Title: Owner

35D. E-mail: dcsensei@yahoo.com

35E. Phone: 304-25801015

35F. FAX: 304-258-9722

36A. Printed name of contact person (if different from above):

36B. Title:

36C. E-mail:

36D. Phone:

36E. FAX:

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

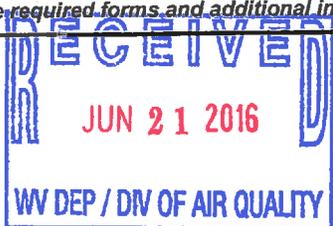
- | | |
|--|---|
| <input checked="" type="checkbox"/> Attachment A: Business Certificate | <input type="checkbox"/> Attachment K: Fugitive Emissions Data Summary Sheet |
| <input checked="" type="checkbox"/> Attachment B: Map(s) | <input checked="" type="checkbox"/> Attachment L: Emissions Unit Data Sheet(s) |
| <input type="checkbox"/> Attachment C: Installation and Start Up Schedule | <input type="checkbox"/> Attachment M: Air Pollution Control Device Sheet(s) |
| <input type="checkbox"/> Attachment D: Regulatory Discussion | <input checked="" type="checkbox"/> Attachment N: Supporting Emissions Calculations |
| <input checked="" type="checkbox"/> Attachment E: Plot Plan | <input type="checkbox"/> Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans |
| <input checked="" type="checkbox"/> Attachment F: Detailed Process Flow Diagram(s) | <input checked="" type="checkbox"/> Attachment P: Public Notice |
| <input type="checkbox"/> Attachment G: Process Description | <input type="checkbox"/> Attachment Q: Business Confidential Claims |
| <input type="checkbox"/> Attachment H: Material Safety Data Sheets (MSDS) | <input checked="" type="checkbox"/> Attachment R: Authority Forms |
| <input checked="" type="checkbox"/> Attachment I: Emission Units Table | <input type="checkbox"/> Attachment S: Title V Permit Revision Information |
| <input checked="" type="checkbox"/> Attachment J: Emission Points Data Summary Sheet | <input checked="" type="checkbox"/> Application Fee |

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- Forward 1 copy of the application to the Title V Permitting Group and:
- For Title V Administrative Amendments:
 - NSR permit writer should notify Title V permit writer of draft permit,
- For Title V Minor Modifications:
 - Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,
 - NSR permit writer should notify Title V permit writer of draft permit.
- For Title V Significant Modifications processed in parallel with NSR Permit revision:
 - NSR permit writer should notify a Title V permit writer of draft permit,
 - Public notice should reference both 45CSR13 and Title V permits,
 - EPA has 45 day review period of a draft permit.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.



AUTHORITY OF LIMITED LIABILITY COMPANY (LLC)

TO: The West Virginia Department of Environmental Protection, Division of Air Quality
DATE: June 16, 20 16
ATTN: Director
LLC's Federal Employer I.D. Number 47-5275903

The undersigned hereby files with the West Virginia Department of Environmental Protection, Division of Air Quality, a permit application and hereby certifies that the said name is a trade name which we are using in the conduct of an unincorporated business.

Further, we have agreed or certified as follows:

- (1) The undersigned is a member and in that capacity may represent the interests of the LLC and may obligate and legally bind all current or future members and the LLC.
- (2) The LLC is authorized to do business in the State of West Virginia.
- (3) The name and business address of each member:

Member: Douglas C. Sensel
Address: 95 Union St., Berkeley Springs, WV 25411-1855

Telephone No.: 304-258-1015

Member: Ellen F. Sensel
Address: 95 Union St., Berkeley Springs, WV 25411-1855

Telephone No.: 304-258-1015

Member: _____
Address: _____

Telephone No.: _____

- (4) If any other persons become members of the undersigned or our relations as such be altered in any way or if the business should become incorporated, the undersigned will notify you promptly.



MEMBER OF LLC (Signature)

Douglas C. Sensel

MEMBER OF LLC (Typed)

Mountain State Crematory, LLC

Address: 95 Union Street
Berkeley Springs, WV 25411-1855
Telephone No.: 304-258-1015

LIMITED LIABILITY COMPANY'S NAME

2014/2015 Permit # 35

TOWN OF BATH
Berkeley Springs, WV

BUILDING PERMIT

Douglas Sensei IS HEREBY GRANTED PERMISSION
TO CONDUCT CONSTRUCTION AT 97 Union Street

AS REQUESTED AND ACCEPTED BY THE TOWN OF BATH

COUNCIL. CONTRACTOR : Self B.S. LIC ✓

APPROVED CONSTRUCTION IS Re-working existing garages
(4 Bays) to accommodate retrofit (Install of Crematory)

THIS LICENSE IS VALID FOR ONE YEAR ONLY.

THIS FORM TO BE POSTED IN FULL VIEW FROM STREET SIDE
OF PROPERTY.

DATE: 8/18/15

Danielle R. Surge
SECRETARY

SPECIFICATIONS- Model Power-Pak I

1. Equipment Type..... Model Power-Pak I
 - A. Model No. IE43-PPI
 - B. Underwriters Laboratories Listing and File No. .. 87E8; MH14647

2. Dimensions
 - A. Footprint 12' – 6 ½" x 5' – 3" (3.82 m x 1.60 m)
 - B. Maximum Length..... 14' – 8" (4.47 m)
 - C. Maximum Width 6' -5" (1.96 m)
 - D. Maximum Height..... 8' - 4" (2.54 m)
 - E. Chamber Loading Opening 25 ¾" H x 39 ½" W (654 mm x 1003 mm)

3. Weight 23,400 lbs. (10,614 kg)

4. Utility/Air Requirements
 - A. Gross Gas Input, Natural or LP Gas..... 2,000,000 BTU/hr. (2,110,112 kJ/h)
3,000,000 BTU/hr. (3,165,168 kJ/h) if operating
temperature is greater than 1,600° F (871° C)
Running Gas Pressure, Natural Gas..... 11 inches (279.4 mm) water column or greater
Running Gas Pressure, LP Gas 11 inches (279.4 mm) water column or greater
 - B. Electrical Supply..... 230 volt, 3Ø or 1Ø, 50/60 hz (other available)
 - C. Air Supply..... 2,500 cfm (70.8 standard m³/min)

5. Incineration Capacity 150 lbs./hr. (68 kg/h)

6. Typical Loading Capacity of Waste Types..... 750 lbs. (340.2 kg)

7. Construction and Safety Standards..... Incineration Institute of America, Underwriters
Laboratories, Canadian Standards Association

8. Steel Structure Construction
 - A. Frame 2" (51 mm) square tubing
 - B. Front/Rear Plates 3/8" (9.5 mm) plate
 - C. Floor Plates..... 3/16" (5 mm) plate
 - D. Outer Side Casing..... 12 gauge (3 mm) plate
 - E. Inner Side Casing..... 12 gauge (3 mm) plate

9. Stack Construction
 - A. Inner Wall..... 3" (76 mm) castable
 - B. Outer Wall..... 12 gauge (3 mm) stainless steel sheet with
welded seams. (unlined stack available)

10. Draft Nozzle Construction Schedule 40 type 316 s.s. pipe, welded
connections

11. Main Chamber Door Construction
 - A. Steel Shell..... 3/16" (5 mm) steel, welded with reinforcement
 - B. Outer Refractory..... 1" (25 mm) insulating block
 - C. Inner Refractory 4½" (110 mm) insulating firebrick

SPECIFICATIONS- Model Power-Pak I

- 12. Primary Chamber Wall Construction
 - A. Outer Casing Wall 12 gauge (3 mm) sheet
 - B. Inner Frame/Air Compartment..... 2" (51 mm) air compartment
 - C. Inner Casing Wall..... 12 gauge (3 mm) sheet
 - D. Outer Refractory Wall..... 5" (127 mm) insulating block
 - E. Inner Refractory Wall 4½" (114 mm) firebrick

- 13. Secondary Chamber Wall Construction
 - A. Outer Casing Wall 12 gauge (3 mm) sheet
 - B. Inner Frame/Air Compartment..... 2" (51 mm) air compartment
 - C. Inner Casing Wall..... 12 gauge (3 mm) sheet
 - D. Outer Refractory Wall..... 6" (152 mm) insulating block
 - E. Inner Refractory Wall 4½" (114 mm) firebrick

- 14. Refractory Temperature Ratings
 - A. Standard Firebrick..... 3,100° F. (1704° C)
 - B. Insulating Firebrick 2,600° F. (1427° C)
 - C. Castable Refractory (Hearth)..... 2,550° F. (1399° C)
 - D. Castable Refractory 2,550° F. (1399° C)
 - E. Insulating Block..... 1,900° F. (1038° C)
 - F. Bonding Mortar 3,200° F. (1760° C)

- 15. Chamber Volumes (not including external flues, stacks or chimneys)
 - A. Primary Chamber 64 cubic feet (1.8 m³)
 - B. Secondary Chamber 74 cubic feet (2.1 m³)

- 16. Emission Control Features
 - A. Secondary Chamber with Afterburner Included
 - B. Opacity Monitor and Controller with Visual and Audible Alarms..... Optional Upgrade Package
 - C. Microprocessor Temperature Control System Included

- 17. Operating Temperatures
 - A. Primary Chamber 32° F. - 1,800° F. (0° C - 982° C)
 - B. Secondary Chamber 1,400° F. - 1,800° F. (760° C - 982° C) as required

- 18. Secondary Chamber Retention Time > 1 second

- 19. Ash Removal Door functions as a heat shield. Sweep out beneath front door into hopper that fills collection pan.

SPECIFICATIONS- Model Power-Pak I

- 20. Safety Interlocks -
 - A. High Gas Pressure..... Optional
 - B. Low Gas Pressure..... Optional
 - C. Blower Air Pressure Included
 - D. Door Position Included
 - E. Opacity..... Optional Upgrade Package
 - F. Motor Starter Function..... Included
 - G. Chamber Temperature Included
 - H. Motor Overload Included
 - I. Flame Quality..... Included
 - J. Burner Safe Start Included

- 22. Burner Description The nozzle mix burners used on this cremation equipment are industrial quality and designed for incinerator use.

- 23. Ultraviolet Flame Detection Ultraviolet flame detection has proven to be the most reliable means of flame safety. The system is completely sealed in a quartz capsule to eliminate problems, caused by moisture and dust created in the cremation process, which effect flame rod detectors.

- 24. Operating Panel Indicating Lights
 - A. Safe Run..... Included
 - B. Door Closed..... Included
 - C. Pollution Alarm..... Optional Upgrade Package
 - E. Afterburner On (Secondary Burner)..... Included
 - H. Afterburner (Secondary Burner) Reset..... Included
 - I. Cremation Burner Reset..... Included
 - H. High Fire Cremation Burner Included
 - H. Low Fire Cremation Burner Included
 - J. Hearth Air..... Included
 - K. Throat Air Off Included

- 25. Automatic Timer Functions
 - A. Master Cycle..... Included
 - B. Hearth Air..... Optional Upgrade Package
 - C. Throat Air Optional Upgrade Package
 - D. Pollution Monitoring..... Optional Upgrade Package
 - E. Cremation Burner Hi - Low..... Optional Upgrade Package
 - F. Cool Down Included

- 26. Exterior Finish
 - A. Primer 2 coats rust inhibiting
 - B. Finish 2 coats textured finish

SPECIFICATIONS- Model Power-Pak I

- 27. Start-Up and Training..... Startup of cremation equipment and training of operators to properly operate and maintain the equipment is performed on-site under actual operating conditions. Included is a comprehensive owner's manual, with details on the equipment, its components and proper operation.

- 28. Environmental Submittals Complete technical portion of state environmental permits. Engineering calculations, technical data, existing stack test results and equipment blueprints provided.

Table 2.1-12 (Metric And English Units). UNCONTROLLED EMISSION FACTORS FOR REFUSE COMBUSTORS OTHER THAN MUNICIPAL WASTE

EMISSION FACTOR RATING: D ↖ ~~ND~~ VOC

Combustor Type	PM		SO ₂		CO		Total Organic Compounds ^a		NO _x	
	kg/Mg	lb/ton	kg/Mg	lb/ton	kg/Mg	lb/ton	kg/Mg	lb/ton	kg/Mg	lb/ton
Industrial/commercial										
Multiple chamber	3.50 E+00	7.00 E+00	1.25 E+00	2.50 E+00	5.00 E+00	1.00 E+01	1.50 E+00	3.00 E+00	1.50 E+00	3.00 E+00
Single chamber	7.50 E+00	1.50 E+01	1.25 E+00	2.50 E+00	1.00 E+01	2.00 E+01	7.50 E+01	1.50 E+01	1.00 E+00	2.00 E+00
Trench										
Wood (SCC 5-01-005-10, 5-03-001-06)	6.50 E+00	1.30 E+01	5.00 E-02	1.00 E-01	ND	ND	ND	ND	2.00 E+00	4.00 E+00
Rubber tires (SCC 5-01-005-11, 5-03-001-07)	6.90 E+01	1.38 E+02	ND	ND	ND	ND	ND	ND	ND	ND
Municipal refuse (SCC 5-01-005-12, 5-03-001-09)	1.85 E+01	3.70 E+01	1.25 E+00	2.50 E+00	ND	ND	ND	ND	ND	ND
Flue-fed single chamber	1.50 E+01	3.00 E+01	2.50 E-01	5.00 E-01	1.00 E+01	2.00 E+01	7.50 E+00	1.50 E+01	1.50 E+00	3.00 E+00
Flue-fed (modified)	3.00 E+00	6.00 E+00	2.50 E-01	5.00 E-01	5.00 E+00	1.00 E+01	1.50 E+00	3.00 E+00	5.00 E+00	1.00 E+01
Domestic single chamber (no SCC)										
Without primary burner	1.75 E+01	3.50 E+01	2.50 E-01	5.00 E-01	1.50 E+02	3.00 E+02	5.00 E+01	1.00 E+02	5.00 E-01	1.00 E+00
With primary burner	3.50 E+00	7.00 E+00	2.50 E-01	5.00 E-01	Neg	Neg	1.00 E+00	2.00 E+00	1.00 E+00	2.00 E+00

^a References 116-123. ND = no data. SCC = Source Classification Code. Neg = negligible.

^b Expressed as methane.

EQUIPMENT LIST FORM

Type Change, if any (New, Modification, or Removal)	Date of Change	Emissions Unit (Source)		Air Pollution Control Device		Emission Point	
		ID No. 1	Source	ID No. 2	Device Type	ID No. 3	Emission Type 4
NEW		IS	MCD IB43-PPI		N/A	1E	VERTICAL STACK NO RAIN CAP

Include all process equipment that will be part of this permit application review, including previously unpermitted emissions units (sources) and air pollution control devices.

1 Number as 1s, 2s, 3s . . . or other appropriate designation. Must match process flow diagram.
 2 Number as 1c, 2c, 3c . . . or other appropriate designation. Must match process flow diagram.
 3 Number as 1e, 2e, 3e . . . or other appropriate designation. Must match process flow diagram.
 4 Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.

CREMATOR MASS BALANCE
Matthews Cremation
PPI

THESE CALCULATIONS HAVE BEEN PREPARED TO EVALUATE THE COMBUSTION PROCESS IN THIS UNIT.

THE INCINERATOR INSTITUTE OF AMERICA HAS PUBLISHED THE FOLLOWING SPECIFICATIONS COVERING AVERAGE WASTES.

WASTE TYPE	TYPE 0	TYPE 4
BTU PER POUND	8500	1000
POUND ASH PER POUND WASTE	0.05	0.05
POUND MOISTURE PER POUND WASTE	0.1	0.85
POUND COMBUSTIBLES PER POUND WASTE	0.85	0.1
HOURLY CONSUMPTION OF WASTE (LBS)	10	140

1. MASS OF PRODUCTS OF COMBUSTION FROM CONTAINER

A. COMBUSTION AIR

$$\frac{8500 \text{ BTU/LB}}{100 \text{ BTU/CF OF AIR}^*} \times 0.075 \text{ LB/CF OF AIR} = 6.38 \text{ LB/LB BURNED}$$

B. COMBUSTIBLES AND WATER VAPOR

FROM CHART ABOVE = 0.95 LB/LB BURNED

C. TOTAL FLUE PRODUCT MASS PER LB BURNED

= 7.33 LB/LB BURNED

2. MASS OF PRODUCTS OF COMBUSTION FROM BODY

A. COMBUSTION AIR

$$\frac{1000 \text{ BTU/LB}}{100 \text{ BTU/CF OF AIR}^*} \times 0.075 \text{ LB/CF OF AIR} = 0.75 \text{ LB/LB BURNED}$$

B. COMBUSTIBLES AND WATER VAPOR

FROM CHART ABOVE = 0.95 LB/LB BURNED

C. TOTAL FLUE PRODUCT MASS PER LB BURNED

= 1.70 LB/LB BURNED

SPECIFICATIONS	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR)	0.5
SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR)	0.9
ADDITIONAL SECONDARY AIR SUPPLIED (CFM)	200
SEC. CHAMBER OPERATING TEMPERATURE (°F)	1400
SECONDARY CHAMBER VOLUME (CU. FT)	74
SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT)	2.44
FLAME PORT AREA (SQ. FT)	2.95
MIXING BAFFLES AREA (SQ. FT)	1.36

*AIR AT STANDARD CONDITIONS

3. TOTAL FLUE PRODUCTS

A. MAXIMUM PRIMARY BURNER GAS USAGE

$$500000 \text{ BTU/HR} \times 4.5E-05 \text{ LBS/BTU} = 22.5 \text{ LBS/HR}$$

B. COMBUSTION AIR FOR PRIMARY BURNER

$$\frac{500000 \text{ BTU/HR}}{100 \text{ BTU/CF AIR}} \times 1 \text{ Burner} \times 0.075 \text{ LB/CF AIR} = 375 \text{ LBS/HR}$$

C. MAXIMUM SECONDARY BURNER GAS USAGE

$$900000 \text{ BTU/HR} \times 4.5E-05 \text{ LBS/BTU} = 41 \text{ LBS/HOUR}$$

D. COMBUSTION AIR FOR SECONDARY BURNER

$$\frac{900000 \text{ BTU/HR}}{100 \text{ BTU/CF AIR}} \times \frac{1 \text{ Burner}}{1} \times 0.075 \text{ LB/CF AIR} = 675 \text{ LBS/HOUR}$$

E. PRODUCTS FROM TYPE 0 WASTE (CONTAINER)

$$7.33 \text{ LBS/LB BURNED} \times 10 \text{ LB/HR BURN RATE} = 73 \text{ LBS/HOUR}$$

F. PRODUCTS FROM TYPE 4 WASTE (TISSUE)

$$1.70 \text{ LBS/LB WASTE} \times 140 \text{ LB/HR BURN RATE} = 238 \text{ LBS/HOUR}$$

G. ADDITIONAL SECONDARY CHAMBER COMBUSTION AIR (THROAT AIR)

$$12000 \text{ CF/HR}^* \times 0.075 \text{ LB/CF AIR} = 900 \text{ LBS/HOUR}$$

H. TOTAL FLUE PRODUCTS

$$= \underline{\underline{2324 \text{ LBS/HOUR}}}$$

2. VELOCITY AND TIME CALCULATIONS

A. SCFM CALCULATION

(PRODUCTS ASSUMED TO HAVE DENSITY CLOSE TO AIR)

$$2324 \text{ LBS/HR} \times \frac{13.35 \text{ STD. CU. FT/LB}}{60 \text{ MIN/HR}} = 517 \text{ SCFM}$$

B. TOTAL PRODUCTS ACFM @ 1400 °F

$$\frac{1860 \text{ °RANKINE}}{530 \text{ °RANKINE}} \times 517.1 \text{ CFM} = 1815 \text{ ACFM}$$

C. RETENTION TIME

$$\frac{74 \text{ CU. FT}}{1815 \text{ ACFM}} \times \frac{60 \text{ SECONDS}}{1 \text{ MINUTE}} = 2.45 \text{ SECONDS}$$

D. VELOCITY IN FLAME PORT

$$\frac{1815 \text{ ACFM}}{2.95 \text{ SQ. FT}} \times \frac{1 \text{ MINUTE}}{60 \text{ SECONDS}} = 10.3 \text{ FEET/SECOND}$$

E. VELOCITY AT MIXING BAFFLES

$$\frac{1815 \text{ ACFM}}{1.36 \text{ SQ. FT}} \times \frac{1 \text{ MINUTE}}{60 \text{ SECONDS}} = 22.2 \text{ FEET/SECOND}$$

F. VELOCITY IN SECONDARY CHAMBER

$$\frac{1815 \text{ ACFM}}{2.44 \text{ SQ. FT}} \times \frac{1 \text{ MINUTE}}{60 \text{ SECONDS}} = 12.4 \text{ FEET/SECOND}$$

CREMATOR CLEARANCES

RECOMMENDED	MINIMUM
TOP: 2 FEET [610 mm]	6 INCHES [152 mm]
CABINET SIDE: 4 FEET [1,22 m]	4 FEET [1,22 m]
OTHER SIDE: 2 FEET [610 mm]	6 INCHES [152 mm]
FRONT: 9 FEET [2,74 m]	8 FEET [2,44 m]
REAR: 3 FEET [0,91 m]	32 INCHES [812 mm]
STACK: 9 INCHES [229 mm]	9 INCHES [229 mm]

- FOR CLEARANCES OTHER THAN THOSE SHOWN, OR FOR SPECIAL REQUIREMENTS, CONSULT YOUR MCD REP.
- FROM HIGHEST POINT ON UNIT.
- CONTROL CABINET MOUNTS ON UNIT'S LEFT OR RIGHT SIDES, OR REMOTELY. (SEE PLAN VIEW, SHEET 1).
- REAR OF UNIT REFERS TO THE "BACK PLATE", RATHER THAN THE BACK OF THE "WHISPER SHIELD". (SEE PLAN VIEW, SHEET 1).

CREMATOR REQUIREMENTS

FUEL: A PRESSURE REGULATOR ADJUSTABLE TO 11" [279 mm] W.C. FOR NATURAL GAS, OR 11" [279 mm] W.C. FOR LP GAS.

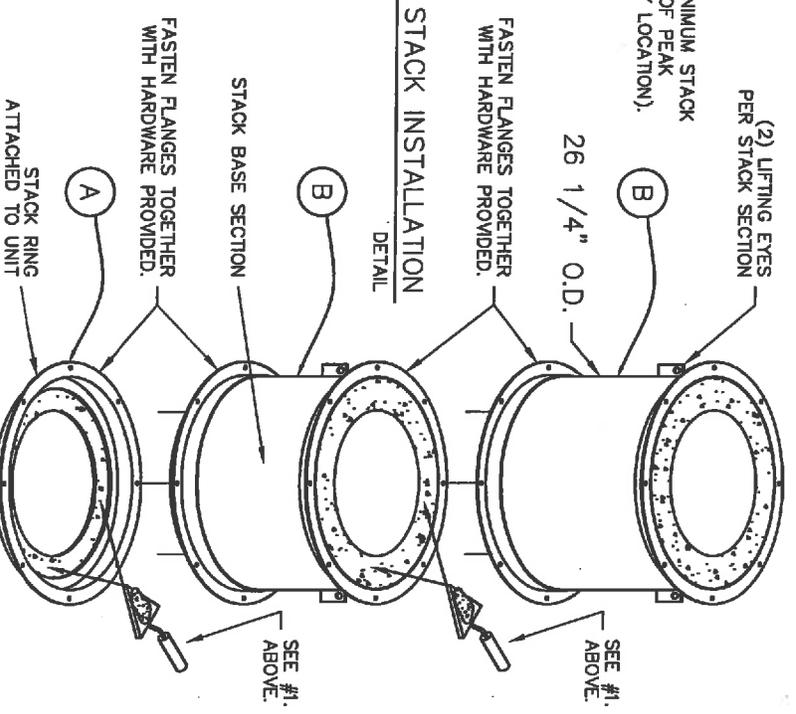
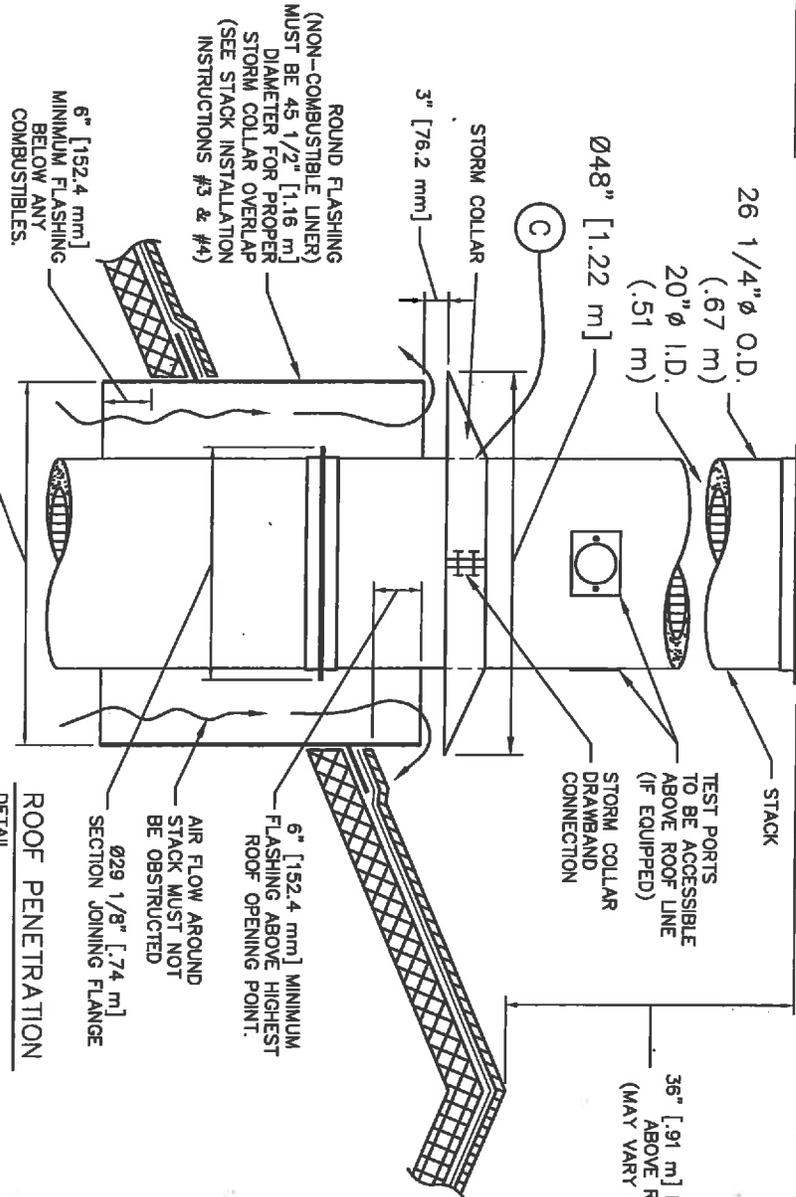
CAPACITY: RANGES FROM 2.0 TO 3.0 MILLION BTU/HR [2.1 TO 3.1 MILLION KILOJouLES/HR] DEPENDING UPON AMOUNT OF BURNERS.

ELECTRICAL: 230 VOLT, 3Ø, (40A BREAKER) AND 115V (10A BREAKER), OR 230 VOLT, 1Ø, (70A BREAKER) AND 115V (10A BREAKER) 50/60 HERTZ

AIR: LOUVER NEAR THE REAR OF THE UNIT CAPABLE OF PASSING 2,500 CU FT/MIN [70.8 CU M/MIN] OF FREE AIR (36" X 36") [914 mm X 914 mm].

STACK INSTALLATION INSTRUCTIONS

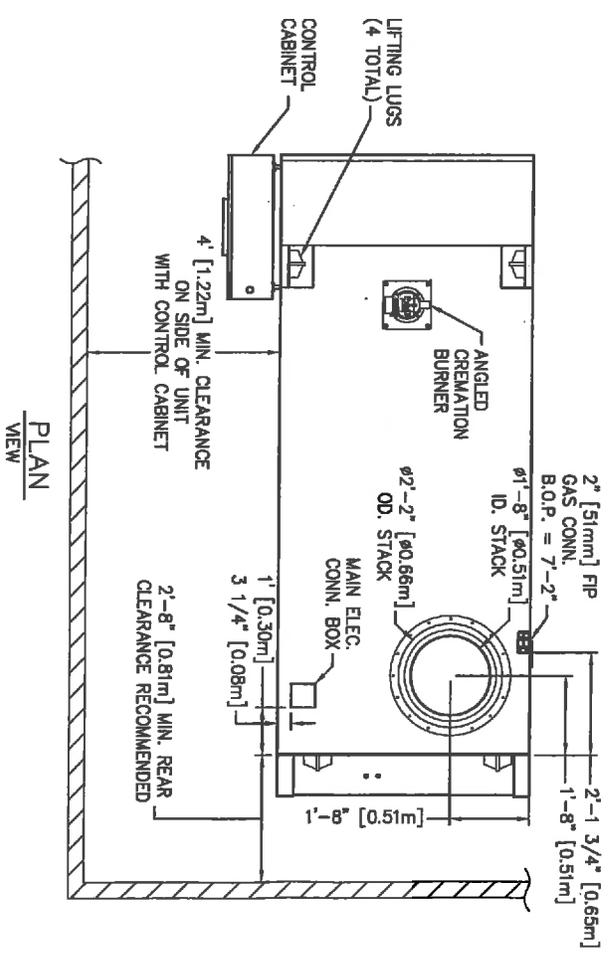
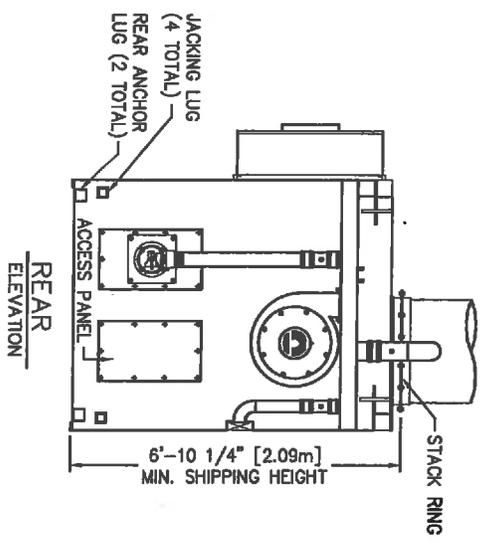
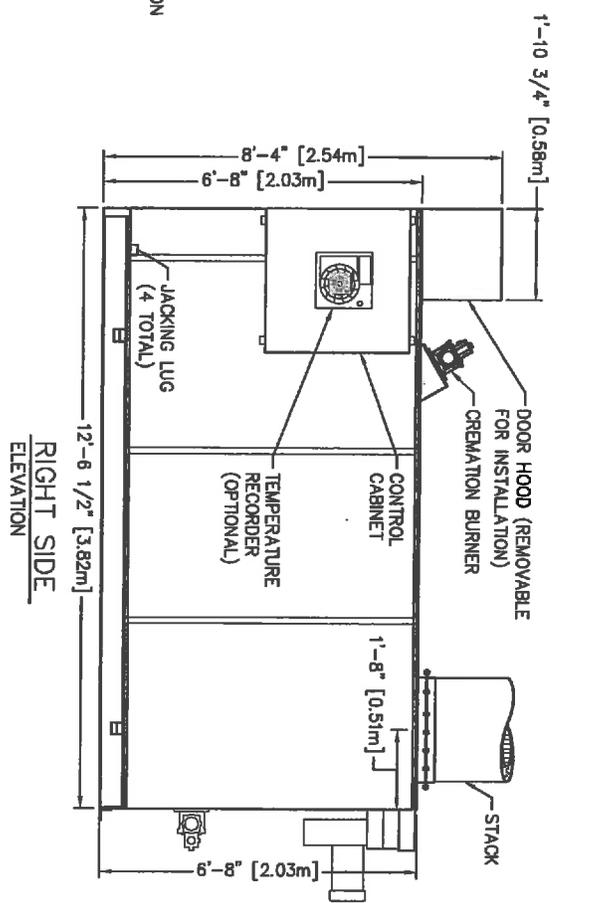
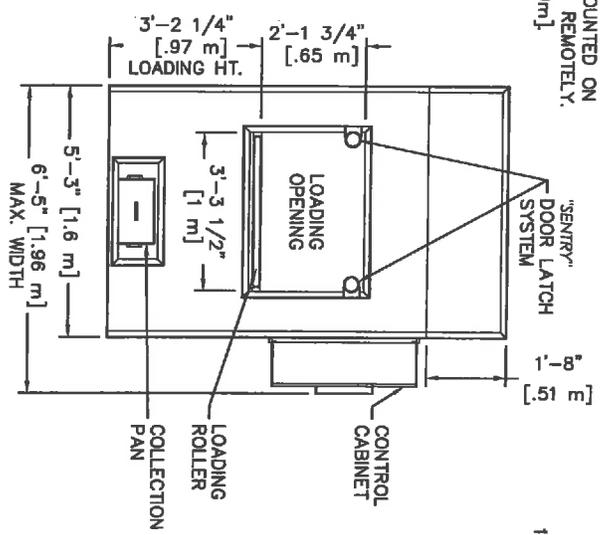
- APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING. LOWER THE BASE STACK SECTION (B) ONTO STACK RING (A) AND FASTEN WITH HARDWARE PROVIDED (NO MORE THAN (2) STACK SECTIONS SHALL BE LIFTED TOGETHER). REPEAT PROCESS FOR REMAINING STACK SECTIONS. IF SECTIONS OF VARYING LENGTHS ARE SUPPLIED, ASSEMBLE AS TO AVOID FLANGES & LIFTING EYES INTERFERING WITH RAIN COLLAR LOCATION.
- INSTALL STORM COLLAR ON STACK, 3" [72 mm] ABOVE NON-COMBUSTIBLE LINER (FLASHING), ALLOWING FOR PROPER VENTILATION (SEE DETAIL).
- APPLY A 1/4" [6 mm] BEAD OF HIGH-TEMPERATURE SILICON SEALANT (PROVIDED BY MCD) TO THE JOINT BETWEEN THE STORM COLLAR (C) AND THE STACK (B).
- STORM COLLAR IS FURNISHED BY MCD. THE NON-COMBUSTIBLE LINER (FLASHING) TO BE PROVIDED BY THE OTHERS.
- IF FIFTY PERCENT OF THE STACK LENGTH IS ABOVE THE ROOF, GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR MCD REP.
- RAIN CAP NOT REQUIRED.



Matthews
CREMATORY DIVISION
2045 Sprint Boulevard
Apopka, Florida 32703
USA

POWER PAK I	
STACK DETAILS, CLEARANCES & INSTALLATION INSTRUCTIONS.	
REFRACTORY STACK DETAIL	
DATE: 07-01-11	SCALE: 1/2"=1'
DRAWN: J.Gogel	PLOT SCALE: 1:24
APRVD: [Signature]	SHEET: 2 OF: 2
DWG FILE: PPI-MarketingStackReFS2	
DWG #: 0001045	

- NOTES:
- CONTROL CABINET CAN BE MOUNTED ON THE LEFT OR RIGHT SIDE, OR REMOTELY.
 - CHAMBER WIDTH IS 39" [0.99m].



Mathews
CREMATION DIVISION
2045 Sprint Boulevard
Apopka, Florida 32703
USA

POWER-PAK I
PLAN & ELEVATIONS INCL. CLEARANCES,
REQUIREMENTS & RECOMMENDATIONS

DRAWN BY:	JG	DATE:	03.20.2014	REVISION:	
APPROVED BY:		DATE:		REVISION:	3 [12.09.2014] GENERAL MODIFICATIONS 2
SCALE:	1/4" = 1'-0"	SHEET:	OF:		4 [12.23.2014] GENERAL MODIFICATIONS 3
DWG FILE:	PP1-MARKETING\PLANELEVRS3_2004				
DWG NUMBER:	09-003				

Attachment J
EMISSION POINTS DATA SUMMARY SHEET

Table 1: Emissions Data

Emission Point ID No. (Must match Emission Units Table & Plot Plan)	Emission Point Type ¹	Emission Unit Vented Through This Point (Must match Emission Units Table & Plot Plan)		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		Vent Time for Emission Unit (chemical processes only)		All Regulated Pollutants - Chemical Name/CAS ³ (Speciate VOCs & HAPs)	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase (At exit conditions, Solid, Liquid or Gas/Vapor)	Est. Method Used ⁶	Emission Concentration (ppmv or mg/m ³) ⁷
		ID No.	Source	ID No.	Device Type	Short Term ²	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr			
1S	Vertical Stack No Rain Cap	1E	PPI	N/A	N/A	N/A	N/A	PM CO VOC SO2 NOx	0.525 0.75 0.225 0.188 0.225	0.9828 1.404 0.4212 0.351 0.4212	0.525 0.75 0.225 0.188 0.225	0.9828 1.404 0.4212 0.351 0.4212	SOLID GAS GAS GAS	EE EE EE EE	0.06 gr/dscf 161.63 ppmv 84.14 ppmv 17.46 ppmv 29.40 ppmv

The EMISSION POINTS DATA SUMMARY SHEET provides a summation of emissions by emission unit. Note that uncaptured process emission unit emissions are not typically considered to be fugitive and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET. Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions). Please complete the FUGITIVE EMISSIONS DATA SUMMARY SHEET for fugitive emission activities.

- 1 Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.
- 2 Indicate by "C" if venting is continuous. Otherwise, specify the average short-term venting rate with units, for intermittent venting (e.g., 15 min/hr). Indicate as many rates as needed to clarify frequency of venting (e.g., 5 min/day, 2 days/wk).
- 3 List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS₂, VOCs, H₂S, Inorganics, Lead, Organics, O₃, NO, NO₂, SO₂, SO₃, all applicable Greenhouse Gases (including CO₂ and methane), etc. **DO NOT LIST** H₂, H₂O, N₂, O₂, and Noble Gases.
- 4 Give maximum potential emission rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g., 5 lb VOC/20 minute batch).
- 5 Give maximum potential emission rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g., 5 lb VOC/20 minute batch).
- 6 Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).
- 7 Provide for all pollutant emissions. Typically, the units of parts per million by volume (ppmv) are used. If the emission is a mineral acid (sulfuric, nitric, hydrochloric or phosphoric) use units of milligram per dry cubic meter (mg/m³) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR17). If the pollutant is SO₂, use units of ppmv (See 45CSR10).

**Attachment L
Emission Unit Data Sheet
(INCINERATOR)**

Control Device ID No. (must match List Form):

Equipment Information

1. Manufacturer: Matthews Cremation Division	2. Model No. IE43-PPI (Power Pak I)
3. On a separate sheet sketch or draw the proposed incinerator showing the location and dimensions (inside and out) of (1) the primary combustion chamber, (2) the secondary combustion chamber, (3) the flame port, (4) auxiliary burners, and (5) dampers with special emphasis on dimensions of the flame port and secondary combustion chambers (inside) . Also, sketch in the minimum distance the gas travels through the secondary combustion chamber.	
4. Rated capacity of the incinerator for the type of waste to be burned:	
Maximum:	150 lb/hr
Typical:	150 lb/hr
Annual:	657 tons/yr
5. By what means is waste charged? <input checked="" type="checkbox"/> Batch <input type="checkbox"/> Continuous <input type="checkbox"/> Periodically	
6. Type: <input checked="" type="checkbox"/> Multiple Chamber <input type="checkbox"/> Single Chamber <input type="checkbox"/> Other, specify:	
7. Projected operating schedule: 12 hr/day 312 day/yr	

Primary Combustion Chamber

8. Volume: 64 ft ³	9. Effective grate area: 26.37 ft ²
10. Maximum temperature: 1800 °F	11. Burning rate: 6 lb/ft ² /hr
12. Heat release in primary chamber: 13000 BTU/hr/ft ³	13. Total heat release in incinerator: 15000 BTU/hr/ft ³

Secondary Combustion Chamber

14. Volume: 74 ft ³	15. Cross sectional area: 2.45 ft ²
16. Volume of gas through secondary combustion chamber: 2811 ACFM @ 1400 °F	17. Gas velocity through secondary combustion chamber: 19.2 ft/sec
18. Minimum gas temperature: 1400 °F	19. Minimum retention time of gas: 2.45 sec
20. Minimum distance of gas travel through secondary combustion chamber: 20 ft	21. Location of air admission: Draft Inducer at base of stack

Flame Port

22. Flame port area: 2.95 ft ²	23. Velocity through flame port: 15.9 ft/sec
--	--

Dampers

24. Type:	25. Number
26. Diameter: inches	27. Capacity: ACFM @ °F

Combustion Air

28. Type of draft: <table style="margin-left: 20px;"> <tr> <td><input type="checkbox"/> Natural</td> <td><input checked="" type="checkbox"/> Forced</td> </tr> <tr> <td><input type="checkbox"/> Sliding damper</td> <td><input type="checkbox"/> Induced</td> </tr> <tr> <td><input type="checkbox"/> Barometric damper</td> <td></td> </tr> </table> Windshielding? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Natural	<input checked="" type="checkbox"/> Forced	<input type="checkbox"/> Sliding damper	<input type="checkbox"/> Induced	<input type="checkbox"/> Barometric damper		29. If draft is forced or induced, describe ID fans or blowers: <table style="margin-left: 20px; width: 100%;"> <tr> <td>Number</td> <td>1</td> <td></td> </tr> <tr> <td>HP rating</td> <td>5</td> <td>HP</td> </tr> <tr> <td>Rated flow</td> <td>2000</td> <td>ft³/min</td> </tr> <tr> <td>Rated speed</td> <td>3450</td> <td>RPM</td> </tr> <tr> <td>Fan rated draft</td> <td>6</td> <td>in. H₂O</td> </tr> <tr> <td>Volume</td> <td></td> <td>@ °F</td> </tr> </table>	Number	1		HP rating	5	HP	Rated flow	2000	ft ³ /min	Rated speed	3450	RPM	Fan rated draft	6	in. H ₂ O	Volume		@ °F
<input type="checkbox"/> Natural	<input checked="" type="checkbox"/> Forced																								
<input type="checkbox"/> Sliding damper	<input type="checkbox"/> Induced																								
<input type="checkbox"/> Barometric damper																									
Number	1																								
HP rating	5	HP																							
Rated flow	2000	ft ³ /min																							
Rated speed	3450	RPM																							
Fan rated draft	6	in. H ₂ O																							
Volume		@ °F																							
30. Theoretical air/refuse ratio: 0.75 lb air/lb refuse																									
31. Percent of total air applied as: <table style="margin-left: 20px; width: 100%;"> <tr> <td>100</td> <td>overfire air</td> </tr> <tr> <td>0</td> <td>underfire air</td> </tr> </table>		100	overfire air	0	underfire air																				
100	overfire air																								
0	underfire air																								

Auxiliary Burners

32. Proposed type and fuel: Natural Gas	
33. Primary Burner Capacity: 0.6 (operating) MMBTU/hr Number: 1 Manufacture: Eclipse Model: TJ-75 Estimated capacity: 600,000 BTU/hr Fuel: Nat Gas How controlled? Timers Is there a temperature indicator? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No How temperature recorded?	34. Secondary Burner Capacity: 1.2 (operating) MMBTU/hr Number: 1 Manufacture: Eclipse Model: TJ-150 Estimated capacity: 1,200,000 BTU/hr Fuel: Nat Gas How controlled? Timers Is there a temperature indicator? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No How temperature recorded? Chart Recorder

Miscellaneous Devices and Controls

35. Automatic loading device. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe.	36. Self closing doors. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
37. Sparks arrestor <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	38. Flame failure protection equipment <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
39. Method of creating turbulence for combustion gases. Describe. Directional Changes, Baffle	40. Method of cleaning secondary or settling chamber. Describe. Cleanout Door
41. Other interlocking devices or controls. If yes, describe. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Door limit switch to shut off cremation burner	

Installation

42. Indoor Installation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe method of supplying combustion air.	43. Outdoor Installation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	---

Emissions Stream

72. Emission rates:

Pollutant	Pounds per Hour lb/hr	grain/ACF	@ °F	PSIA	Tons per Year Tons/yr	Parts per Million ppm
CO	0.75				1.404	161.63
Hydrocarbons	0.225				0.4212	84.14
NO _x	0.225				0.4212	29.40
Pb	1E-04				0.0002	
PM ₁₀	0.525	0.06			0.9828	
SO ₂	0.188				0.351	17.46
VOCs	0.225				0.4212	84.14
Other (specify)						

73. If an *Air Pollution Control Device* is not submitted, the emission rates should be the same as those reported home "Maximum Potential and Maximum Actual Emissions" on the *Emission Points Data Summary Sheet*.

74. Emissions rates should be substantiated by submitting *stack test data* and/or *calculations*.

Fuel Usage Data

75. Estimated annual fuel cost: 10,000		\$
76. Firing rate: Maximum: 1.9	mmBTU/hr	77. Fuel type: <input checked="" type="checkbox"/> Natural Gas <input type="checkbox"/> Coal <input type="checkbox"/> Fuel Oil, No. <input type="checkbox"/> Other, specify:
Typical: 1.8	mmBTU/hr	
Design: 2.0	mmBTU/hr	
78. Typical heating content of fuel: 1000 BTU/scf		79. Typical fuel sulfur content: Unknown wt. %
80. Typical fuel ash content: Unknown	wt. %	81. Annual fuel usage: 74880 Therms
82. Please complete an <i>Air Pollution Control Device Sheet(s)</i> for the control(s) used on this Emission Unit, if applicable.		
83. Have you included the <i>air pollution rates</i> on the Emissions Points Data Summary Sheet? Yes		

84. Proposed Monitoring, Recordkeeping, Reporting, and Testing

Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING PLAN: Please list (1) describe the process parameters and how they were chosen (2) the ranges and how they were established for monitoring to demonstrate compliance with the operation of this process equipment operation or air pollution control device.

Display of secondary chamber temperature to ensure proper operating temperature

TESTING PLAN: Please describe any proposed emissions testing for this process equipment or air pollution control device.

NONE

RECORDKEEPING: Please describe the proposed recordkeeping that will accompany the monitoring.

Chart Recorder would record secondary chamber temperature

REPORTING: Please describe the proposed frequency of reporting of the recordkeeping.

None unless requested by DEP

85. Please describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty.

No maintenance procedures required to maintain warranty. Operating temperature should be maintained below 2100F.

Calculation Of Emissions

Potential to Emit

Matthews Cremation Division (MCD)
 (formerly Industrial Equipment and Engineering Company (IEE))
 Crematory Incinerator Model IE43-PPI

Total Incinerator Burn Capacity 150 lb/hr of remains (type 4) and associated containers (type 0)
 Flue gas flow rate = 1100 dscfm 12 Hours/Day X 6 Days/Week X 52 Weeks/Year
 (100 % Excess Air) = 3744 Hours/Year

Total Emission Rate = Incinerator Burn Rate X Emission Factor

Sulfur Dioxide (SO₂)

$$\frac{150 \text{ lb/hr X } 2.5 \text{ lb/ton X } 1 \text{ ton}}{2000 \text{ lbs}} = 0.188 \text{ lb/hr}$$

$$= 0.351 \text{ TPY}$$

$$\frac{0.1875 \text{ lb/hr X } 4.54\text{E}+05 \text{ mg/lb X } 1 \text{ ppmv}}{1100 \text{ dscfm X } 60 \text{ min/hr X } 0.0283 \text{ m}^3/\text{ft}^3 \text{ X } 2.61 \text{ mg/m}^3} = 17.46 \text{ ppmv}$$

Nitrogen Oxide (NO_x - as Nitrogen Dioxide)

$$\frac{150 \text{ lb/hr X } 3 \text{ lb/ton X } 1 \text{ ton}}{2000 \text{ lbs}} = 0.225 \text{ lb/hr}$$

$$= 0.4212 \text{ TPY}$$

$$\frac{0.225 \text{ lb/hr X } 4.54\text{E}+05 \text{ mg/lb X } 1 \text{ ppmv}}{1100 \text{ dscfm X } 60 \text{ min/hr X } 0.0283 \text{ m}^3/\text{ft}^3 \text{ X } 1.88 \text{ mg/m}^3} = 29.40 \text{ ppmv}$$

Hydrocarbons (TOC/VOC - methane)

$$\frac{150 \text{ lb/hr X } 3 \text{ lb/ton X } 1 \text{ ton}}{2000 \text{ lbs}} = 0.225 \text{ lb/hr}$$

$$= 0.4212 \text{ TPY}$$

$$\frac{0.225 \text{ lb/hr X } 4.54\text{E}+05 \text{ mg/lb X } 1 \text{ ppmv}}{1100 \text{ dscfm X } 60 \text{ min/hr X } 0.0283 \text{ m}^3/\text{ft}^3 \text{ X } 0.65 \text{ mg/m}^3} = 84.14 \text{ ppmv}$$

Lead (Pb) (6.62E-05 lbs/cremation)

$$\frac{150 \text{ lb/hr X } 0.0000662 \text{ lb Pb}}{100 \text{ lb}} = 1\text{E}-04 \text{ lb/hr}$$

$$= 0.0002 \text{ TPY}$$

Particulates (PM & PM₁₀) (Actual Levels lower as shown by test results)

$$\frac{150 \text{ lb/hr X } 7 \text{ lb/ton X } 1 \text{ ton}}{2000 \text{ lbs}} = 0.525 \text{ lb/hr}$$

$$= 0.9828 \text{ TPY}$$

$$\frac{0.525 \text{ lb/hr X } 7.00\text{E}+03 \text{ gr/lb X}}{1100 \text{ dscfm X } 60 \text{ min/hr}} = 0.06 \text{ gr/dscf}$$

Carbon Monoxide (CO) (Actual Levels lower as shown by test results)

$$\frac{150 \text{ lb/hr X } 10 \text{ lb/ton X } 1 \text{ ton}}{2000 \text{ lbs}} = 0.75 \text{ lb/hr}$$

$$= 1.404 \text{ TPY}$$

$$\frac{0.75 \text{ lb/hr X } 4.54\text{E}+05 \text{ mg/lb X } 1 \text{ ppmv}}{1100 \text{ dscfm X } 60 \text{ min/hr X } 0.0283 \text{ m}^3/\text{ft}^3 \text{ X } 1.14 \text{ mg/m}^3} = 161.63 \text{ ppmv}$$

Notes:

1. Incinerator Emissions based on EPA emissions from Table 2.1-12 of AP-42 (5th Edition)
2. All conversion factors from AP-42 Appendix A.

Calculation Of GHG Emissions

Potential to Emit

Matthews Cremation Division (MCD)

Type Of Gas:	Nat Gas	
Gas Heating Value:	1,000	Btu/cf
Heat Input Capacity of Cremation Unit:	2.00E+06	Btu/hr

$$\text{Potential Throughput (cf / yr)} = \text{Heat Input Capacity (MMBtu/hr)} \times (8760 \text{ hrs/yr}) \times (1 / \text{Gas Heating Value})$$

$$= 2.00E+06 \text{ Btu/hr} \times 8760 \text{ hrs/yr} \times \frac{1 \text{ cf/Btu}}{1,000} = 1.8E+07 \text{ cf/yr}$$

$$\text{GHG (TPY)} = \text{Emission Factor (lb/E6 cf)} \times \text{Potential Throughput (cf/yr)} \times (1 \text{ ton}/2000 \text{ lbs})$$

Carbon Dioxide (CO2)

$$\frac{120000 \text{ lb}}{1.00E+06 \text{ cf}} \times \frac{17520000 \text{ cf}}{\text{yr}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} = 1051.2 \text{ TPY}$$

Nitrous Oxide (N2O)

$$\frac{2.2 \text{ lb}}{1.00E+06 \text{ cf}} \times \frac{17520000 \text{ cf}}{\text{yr}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} = 0.019272 \text{ TPY}$$

Methane (CH4)

$$\frac{2.3 \text{ lb}}{1.00E+06 \text{ cf}} \times \frac{17520000 \text{ cf}}{\text{yr}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} = 0.020148 \text{ TPY}$$

$$\text{CO2e (TPY)} = (\text{CO2 TPY} \times \text{CO2 GWP}) + (\text{N2O TPY} \times \text{N2O GWP}) + (\text{CH4 TPY} \times \text{CH4 GWP})$$

$$= 1051.2 \times 1 + 0.019272 \times 310 + 0.020148 \times 21$$

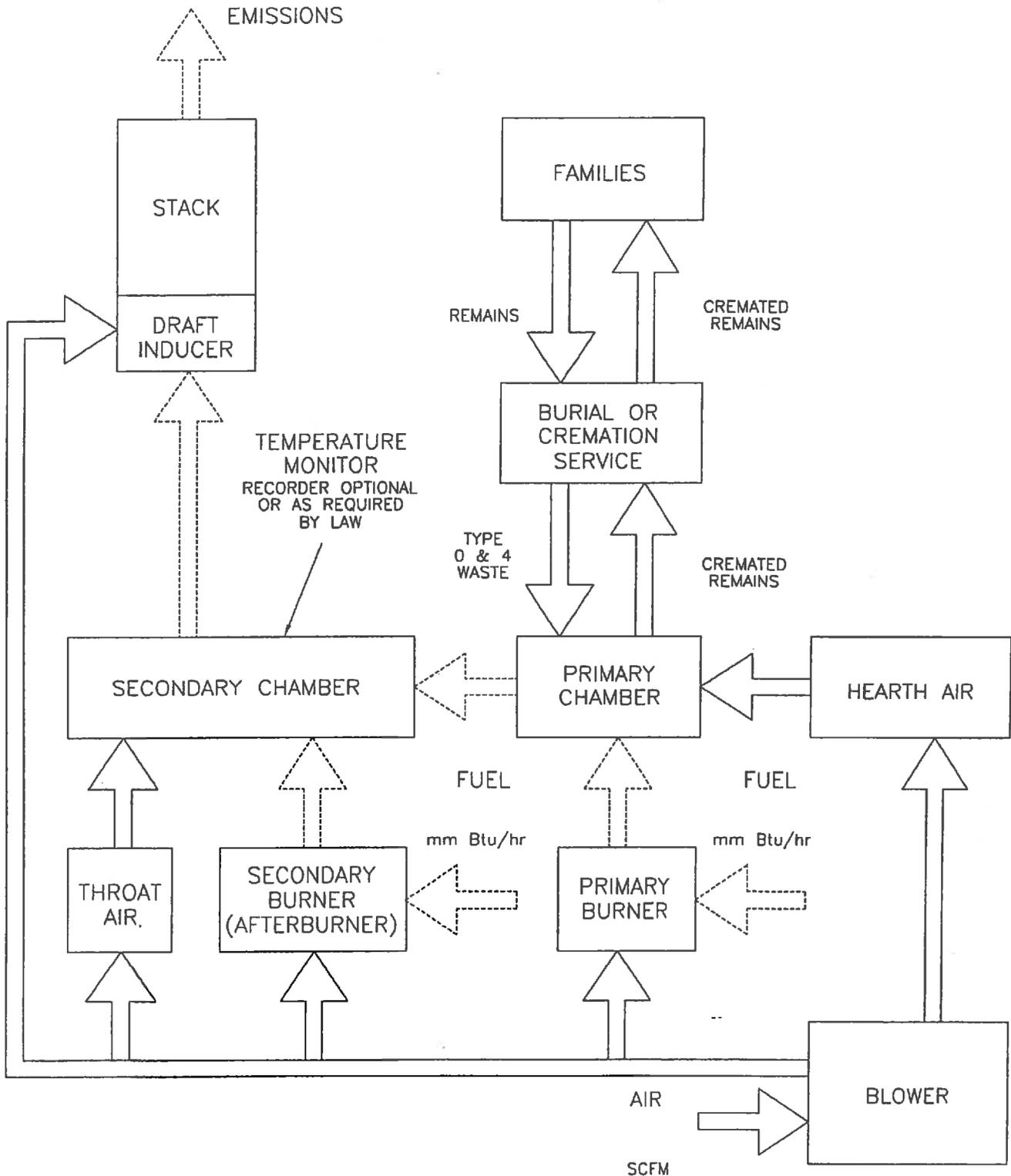
$$= 1057.597428 \text{ TPY}$$

Fluorinated Gases (i.e. Hydrofluorocarbons, Perfluorocarbons, Sulfur Hexafluoride) - N/A

Notes:

1. GWP values from Table A-1 of 40CFR 98, Subpart A
2. Gas CO2, N2O, CH4 emission factors based from AP42 Table 1.4-2 or Table 1.5-1

PROCESS FLOW DIAGRAM CREMATOR



COPY

**Air Quality Permit Notice
Notice of Application**

Notice is given that Mountain State Crematory LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Construction Permit for a Crematory located on 95 Union Street in Berkeley Springs, in Morgan County, West Virginia. The latitude and longitude coordinates are: Latitude 39.629252, Longitude -78.225418.

The applicant estimates the potential to discharge the following Regulated Air Pollutants will be:

- Sulfur Dioxide: 0.35 TPY
- Nitrogen Oxide: 0.42 TPY
- PM: 0.98 TPY
- PM10: 0.98 TPY
- Carbon Monoxide: 1.40 TPY
- CO_{2e}: 1057.60 TPY

Startup of operation is planned to begin on or about the 1st day of September, 2016. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304)926-0499, extension 1250, during normal business hours.

Dated this 16th day of June, 2016.

By: Mountain State Crematory LLC
Douglas C. Sensel
Owner/Operator
95 Union Street
Berkeley Springs, WV 25411-1855

ATTACHMENT B



Google earth



N. Washington Street, Route 522, Berkeley Springs, WV

Union Street, Berkeley Springs, WV

Attachment A

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**MOUNTAIN STATE CREMATORY LLC
95 UNION ST
BERKELEY SPRINGS, WV 25411-1855**

BUSINESS REGISTRATION ACCOUNT NUMBER: 2320-0231

This certificate is issued on: **10/14/2015**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued
This certificate shall be permanent until cessation of the business for which the certificate of registration
was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new
certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of
this certificate displayed at every job site within West Virginia.

October 13, 2015

Mountain State Crematory LLC
95 Union Street
Berkeley Springs, WV 25411

Dear Employer:

We acknowledge receipt of your registration application. After reviewing this form, we have determined that you are not liable under the West Virginia Unemployment Law at this time.

However, when one of the following conditions has been met, you will be liable for filing quarterly reports and making contribution payments to this Bureau for each calendar quarter in the year you become liable.

1. Employ one or more persons in each of twenty different calendar weeks, whether or not consecutive, in a calendar year; or
2. Employ one or more persons in a calendar quarter with wages equal to or greater than \$1500.00 paid to the individual(s) during the calendar quarter.

Effective with the reporting period beginning January 1, 2005, any LLC which elects on Form 8832 to file with the Internal Revenue Service as a corporation must report to this Agency any wages paid to the members.

Please inform this office at the time one of the above provisions has been met. We will then establish an active account for your business. Failure to do so may result in the issuance of interest and penalties, which cannot be forgiven under the West Virginia Unemployment Compensation Law.

In accordance with provision of the Commissioner's Regulations, Regulation 96 CSR 2, an employer who desires to dispute a decision or action by the Commissioner, or designee, is required to file a complete and timely request for reconsideration; otherwise, the Bureau's decision or action becomes final after thirty (30) days receipt of this decision.

A request for reconsideration shall be filed within thirty (30) days of the employer's receipt of the disputed decision, or in absence of such a receipt, within sixty (60) days of the date of the Commissioner, or designee, making such disputed decision.

The request for reconsideration shall be filed with the Commissioner, Attention: Beth Nogay Carenbauer, Director of Unemployment Compensation (5101), 112 California Avenue, Charleston, West Virginia 25305.

If you have any questions you can contact me at (304) 558-3433 or by fax at (304) 558-1324. E-mail Vivian.G.Cartwright@wv.gov

Very truly yours,



Vivian G. Cartwright
Status Determination Unit

112 California Avenue • Charleston, WV 25305

An agency of the Department of Commerce
An equal opportunity employer/program and auxiliary aids are available upon request to individuals with disabilities.
www.workforcewv.org

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STATE OF WEST VIRGINIA
State Tax Department, Revenue Division
P. O. Box 2666
Charleston, WV 25330-2666



Earl Ray Tomblin, Governor

Mark W. Matkovich, Tax Commissioner

MOUNTAIN STATE CREMATORY LLC
95 UNION ST
BERKELEY SPRINGS WV 25411-1855

Letter Id: L1934810432
Issued: 10/14/2015
Account #: 2320-0231

00002502010000



RE: Business Registration Certificate

The West Virginia State Tax Department would like to thank you for registering your business. Enclosed is your Business Registration Certificate. This certificate shall be permanent until cessation of business or until suspended, revoked or cancelled. Changes in name, ownership or location are considered a cessation of business; a new Business Registration Certificate and applicable fees are required. Please review the certificate for accuracy.

This certificate must be prominently displayed at the location for which issued. Engaging in business without conspicuously posting a West Virginia Business Registration Certificate in the place of business is a crime and may subject you to fines per W.Va. Code § 11-9.

When contacting the State Tax Department, refer to the appropriate account number listed on the back of this page. The taxes listed may not be all the taxes for which you are responsible. Account numbers for taxes are printed on the tax returns mailed by the State Tax Department. Failure to timely file tax returns may result in penalties for late filing.

Should the nature of your business activity or business ownership change, your liability for these and other taxes will change accordingly.

To learn more about these taxes and the services offered by the West Virginia State Tax Department, visit our web site at www.wvtax.gov.

Enclosure

atL006 v.4

Attachment A

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

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Very truly yours,


Vivian G. Cartwright
Status Determination Unit



STATE OF WEST VIRGINIA
State Tax Department, Revenue Division
P. O. Box 2666
Charleston, WV 25330-2666



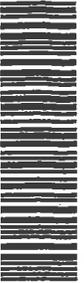
Earl Ray Tomblin, Governor

Mark W. Matkovich, Tax Commissioner

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Enclosure

atL006 v.4



PLOT PLAN

NORTH

SHOW ALL SURROUNDING BUILDINGS AND ROADS WITHIN 250' OF THE EQUIPMENT COVERED BY THIS APPLICATION

N Washington St

Union St

Union St

STRUCTURE DESCRIPTION

- (1)
- (2)
- (3)
- (4)
- (5)

INSTRUCTIONS

1. INDICATE LOCATION AND TYPE OF BUILDING BY THE USE OF