# FEA RECEIPT 524787

DATE: SEP 08 2011

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**SEP** 13 2011

#### **HUMAN CREMATORY** DIVISION OF AIR AIR GENERAL PERMIT REGISTRATION FORM RESOURCE MANAGEMENT

# Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

**Instructions:** To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air

pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. (\$100 as of the effective date of this form)
Registration Type
Check one:
<ul> <li>INITIAL REGISTRATION - Notification of intent to:</li> <li>Construct and operate a proposed new facility.</li> <li>Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).</li> </ul>
RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:  Continue operating the facility after expiration of the current term of air general permit use.  Continue operating the facility after a change of ownership.  Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.
Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only
If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.  All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s):  #0150031 (see attachment DEP Letter of 12/14/2007  No air operation permits currently exist for this facility.
General Facility Information  Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)
Roberson Funeral Home & Crematory, Inc.
Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)  Roberson Funeral Home & Crematory, Inc.
Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)  Street Address: 2151 Tamiami Trail City: Port Charlotte County: Charlotte Zip Code: 33948 - 2123
Facility Start-Up Date (Estimated start-up date of proposed new facility.) (N/A for existing facility)
N/A

DEP Form No. 62-210.920(2)(c) Effective: January 10, 2007

Owner/Authorized Representative

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this

air general permit.)

Print Name and Title: Kenneth L. Roberson, President

Owner/Authorized Representative Mailing Address Kenneth L. Roberson, Pres.

Organization/Firm:

Roberson Funeral Home & Crematory, Inc. PO Box 495096 (2151 Tamiami Trail)

Street Address: City:

Port Charlotte County: Charlotte

Zip Code: 33949-5096

Owner/Authorized Representative Telephone Numbers

Telephone: (941) 629-3141

Fax: (941) 629-3147

Cell phone (optional):

Facility Contact (If different from Owner/Authorized Representative)

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.) Print Name and Title:

Kenneth L. Roberson, President

Facility Contact Mailing Address

Organization/Firm: Roberson Funeral Home & Crematory, Inc.

City:

Cell phone (optional):

P.O. Box 495096 Port Charlotte

(2151 Tamiami Trail) County: Charlotte

Zip Code: FL 33949-5096

Facility Contact Telephone Numbers

Telephone: (941) 629-341

Fax: (941) 629-3147

Owner/Authorized Representative Statement

This statement must be signed and dated by the person named above as owner or authorized representative

I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.

I will promptly notify the Department of any changes to the information contained in this registration form.

Sept. 1, 2011

Date

# **Design Calculations**

If this is an initial registration for a proposed new human crematory unit, provide design calculations to confirm a sufficient volume in the secondary chamber combustion zone to provide for at least a 1.0 second gas residence time at 1800 degrees F.

Manufacturer's' design calculations attached.

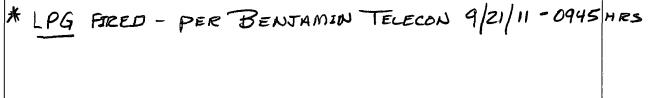
Registration is not for proposed new human crematory unit(s).

# **Description of Facility**

Below, or as an attachment to this form, provide a description of all crematory operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

Installation of new Power Pak II human cremation unit at current facility that will replace existing Crawford C1000 unit.

See attached process flow diagram



DEP Form No. 62-210.920(2)(c) Effective: January 10, 2007



# Department of Environmental Protection

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DIVISION OF AIR RESOURCE MANAGEMENT

# **Division of Air Resource Management**

# HUMAN CREMATORY AIR GENERAL PERMIT REGISTRATION FORM

### Part I. Procedures and Conditions for Use of Air General Permit

The Department of Environmental Protection ("Department" or "DEP") has established an "air general permit" at Florida Administrative Code ("F.A.C.") Rule 62-210.310(5)(c) for human crematories. An air general permit is an authorization by rule to construct or operate a specific type of air pollutant emitting facility. Use of such authorization by any individual facility does not require action by the Department. The terms and conditions of the air general permit are set forth in the rule, rather than in a separately issued air construction or air operation permit.

The owner or operator of an eligible facility comprising one or more human crematories may register to use the air general permit at Rule 62-210.310(5)(c), F.A.C., by following the general procedures given at Rule 62-210.310(2), F.A.C., the text of which is provided below. The owner or operator shall notify the Department of the facility's intent to use this general permit by submitting Part II of this registration form to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Questions concerning this air general permit or the registration process may be directed to any such office or to the Department's small business assistance program at 1-800-SBAP-HLP (1-800-722-7457).

The owner or operator of a facility who properly registers to use this air general permit, and who is not denied use of the air general permit by the Department, is authorized to construct and operate the facility in accordance with the general terms and conditions of Rule 62-210.310(3), F.A.C., and the specific terms and conditions of Rule 62-210.310(5)(c), F.A.C. The text of these two rules is also provided below, followed by definitions of words and phrases used in the rules and on this form. A facility using this air general permit shall not be entitled to use more than one air general permit for the facility.

#### Rule 62-210.310(2), F.A.C.

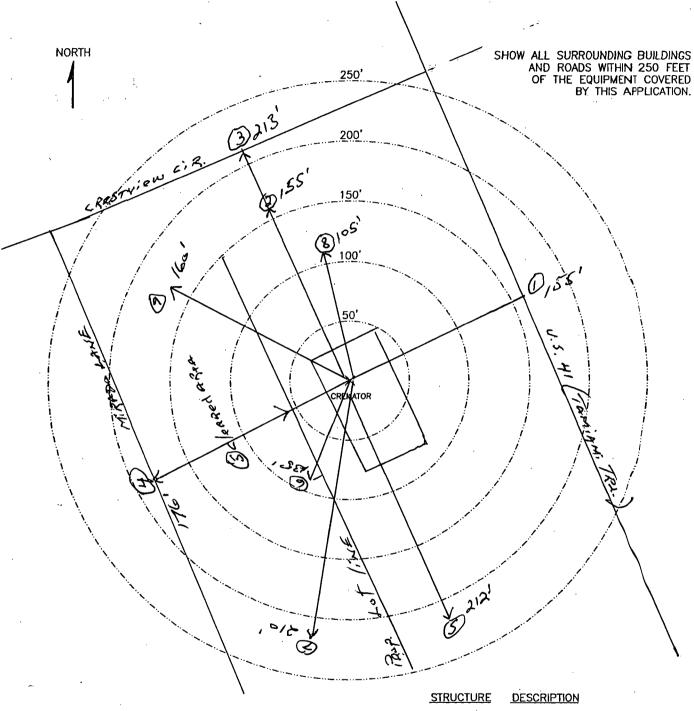
- (2) General Procedures. This subsection sets forth general procedures for use of any of the air general permits provided at subsections 62-210.310(4) and (5), F.A.C.
- (a) **Determination of Eligibility.** The owner or operator of a proposed new or existing facility shall determine the facility's eligibility to use an air general permit under this rule. A facility is eligible to use an air general permit under this rule if it meets any specific eligibility criteria given in the applicable air general permit at subsection 62-210.310(4) or (5), F.A.C., and the following general criteria.
- 1. The facility shall not emit nor have the potential to emit 10 tons per year or more of any hazardous air pollutant, 25 tons per year or more of any combination of hazardous air pollutants, or 100 tons per year or more of any other regulated air pollutant; be collocated with, or relocated to, such a facility; or create such a facility in combination with any other collocated facilities, emissions units, or pollutant-emitting activities, including any such facility, emissions unit, or activity that is otherwise exempt from air permitting.
- 2. The facility shall not contain any emissions units or activities not covered by the applicable air general permit, except:
- a. Units and activities that are exempt from permitting pursuant to subsection 62-210.300(3), F.A.C., or Rule 62-4.040, F.A.C.; and
- b. Units and activities that are authorized by another air general permit where such other air general permit and the air general permit of interest specifically allow the use of one another at the same facility.

DEP Form No. 62-210.920(2)(c) Effective: January 10, 2007



2151 Tamiami Tr. • P.O. Box 495096 Port Charlotte, Florida 33949-5086

# PLOT PLAN



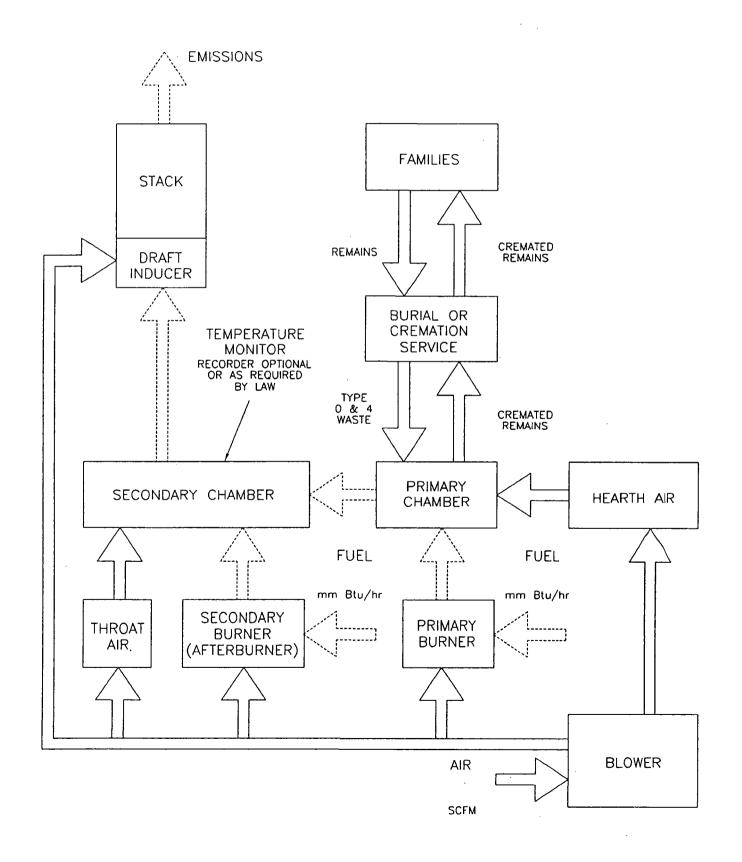
# INSTRUCTIONS

- INDICATE LOCATION AND TYPE OF BUILDING BY THE USE OF SMALL NUMBERED CIRCLES WITH THE DESCRIPTION BELOW.
- SHOW ROADS AS LINES REPRESENTING THE ROAD EDGES. INDICATE STREET NAMES AND HIGHWAY NUMBERS.
- 3. SHOW WOODED OR CLEARED AREA BY APPROXIMATE BOUNDARY LINES AND THE WORDS "WOODS," "CLEARED," "CORNFIELD," ETC.

- (1) U.S.41 (Tamiami Trail)
- (2) Concrete Block Commerical Bldg.
- (3) Crestview Circle
- (4) Mirado Lane
- (5) Concrete Block Commerical Bldg.(6) Concrete Block Residential

- (7) Concrete Block Residential (8) Concrete Block Commerical Bldg.
- (9) Concrete Block Commerical Bldg.
- (10)

# PROCESS FLOW DIAGRAM CREMATOR

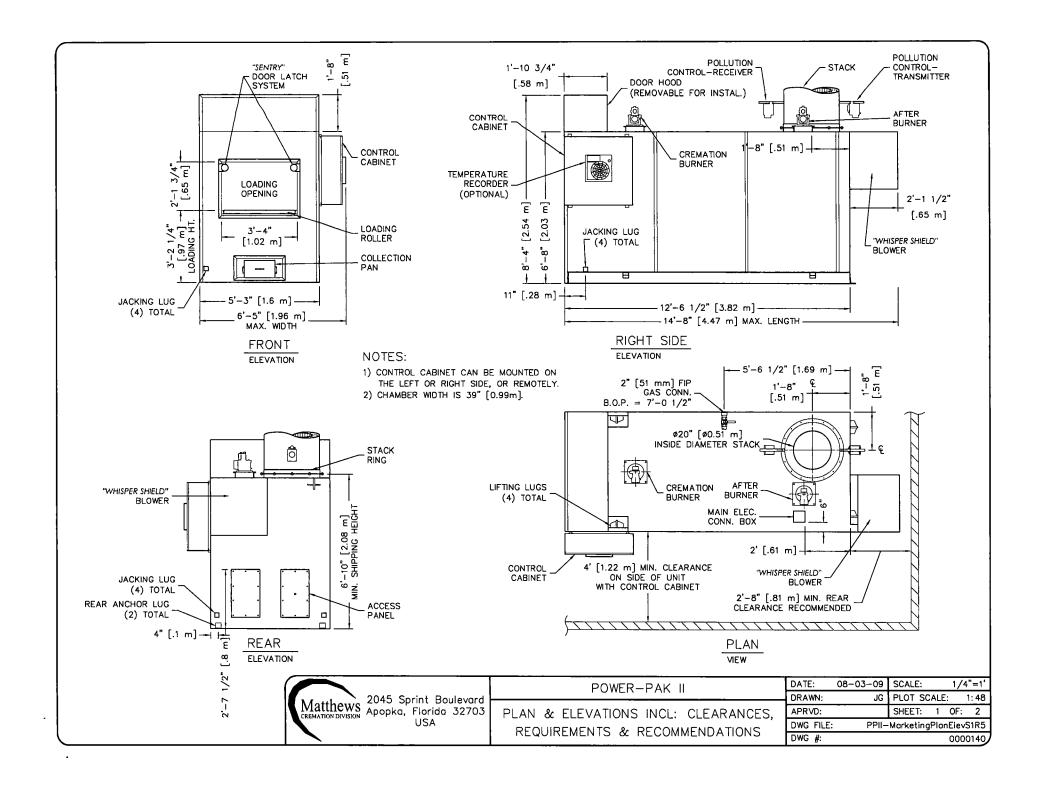


1.	Equipment TypeA. Model NoB. Underwriters Laboratories Listing and File No	IE43-PPII
2.	Dimensions A. Footprint B. Maximum Length C. Maximum Width D. Maximum Height E. Chamber Loading Opening	14' - 8" (4.47 m) 6' -5" (1.96 m) 8' - 4" (2.54 m)
3.	Weight	24,000 lbs. (10,900 kg)
4.	Utility/Air Requirements A. Gross Gas Input, Natural or LP Gas	3,000,000 BTU/hr. (3,165,168 kJ/h) if operating temperature is greater than 1,600° F (871° C) 7 inches (177.8 mm) water column or greater 11 inches (279.4 mm) water column or greater 230 volt, 3Ø or 1Ø, 50/60 hz (other available)
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
	Steel Structure Construction A. Frame B. Front/Rear Plates C. Floor Plates D. Outer Side Casing E. Inner Side Casing Stack Construction	3/8" (9.5 mm) plate 3/16" (5 mm) plate 12 gauge (3 mm) plate 12 gauge (3 mm) plate
	A. Inner Wall B. Outer Wall	
10. l	Oraft Nozzle Construction	Schedule 40 type 316 s.s. pipe, welded connections
11.	Main Chamber Door Construction  A. Steel Shell  B. Outer Refractory  C. Inner Refractory	3/16" (5 mm) steel, welded with reinforcement 1" (25 mm) insulating block

12.	Primary Chamber Wall Construction A. Outer Casing Wall B. Inner Frame/Air Compartment C. Inner Casing Wall D. Outer Refractory Wall E. Inner Refractory Wall	2" (51 mm) air compartment 12 gauge (3 mm) sheet 5" (127 mm) insulating block
13.	Secondary Chamber Wall Construction A. Outer Casing Wall B. Inner Frame/Air Compartment C. Inner Casing Wall D. Outer Refractory Wall E. Inner Refractory Wall	2" (51 mm) air compartment 12 gauge (3 mm) sheet 6" (152 mm) insulating block
14.	Refractory Temperature Ratings A. Standard Firebrick	2,600° F. (1427° C) 2,550° F. (1399° C) 2,550° F. (1399° C) 1,900° F. (1038° C)
15.	Chamber Volumes (not including external flues, stacks or chimneys) A. Primary Chamber B. Secondary Chamber	
16.	Emission Control Features  A. Secondary Chamber with Afterburner  B. Opacity Monitor and Controller with Visual and Audible Alarms  C. Auxiliary Air Control System  D. Microprocessor Temperature Control System	Included Included
17.	Operating Temperatures A. Primary Chamber B. Secondary Chamber	1,200° F 1,800° F. (649° C - 982° C) 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.

20.	Safety Interlocks A. High Gas Pressure B. Low Gas Pressure C. Blower Air Pressure D. Door Position E. Opacity F. Motor Starter Function G. Chamber Temperature H. Motor Overload I. Flame Quality J. Burner Safe Start	Optional 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 B. Door Closed C. Pollution Alarm D. Afterburner On (Secondary Burner) E. Cremation Burner On F. Low Fire Cremation Burner On G. Afterburner (Secondary Burner) Reset H. Cremation Burner Reset I. Hearth Air J. Throat Air Off	Included
25.	Automatic Timer Functions  A. Master Cycle  B. Afterburner (Secondary Burner)  C. Cremation Burner  D. Low Fire Cremation Burner  E. Hearth Air  F. Throat Air  G. Pollution Monitoring  H. Afterburner (Secondary Burner) Prepurge  I. Cremation Burner Prepurge  J. Cool Down	Included
26.	Exterior Finish A. Primer B. Finish	

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



# CREMATOR CLEARANCES

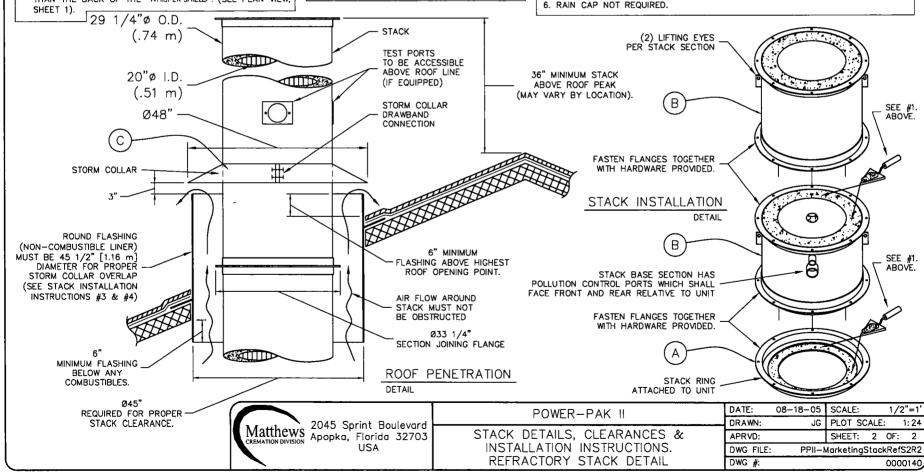
### CREMATOR REQUIREMENTS

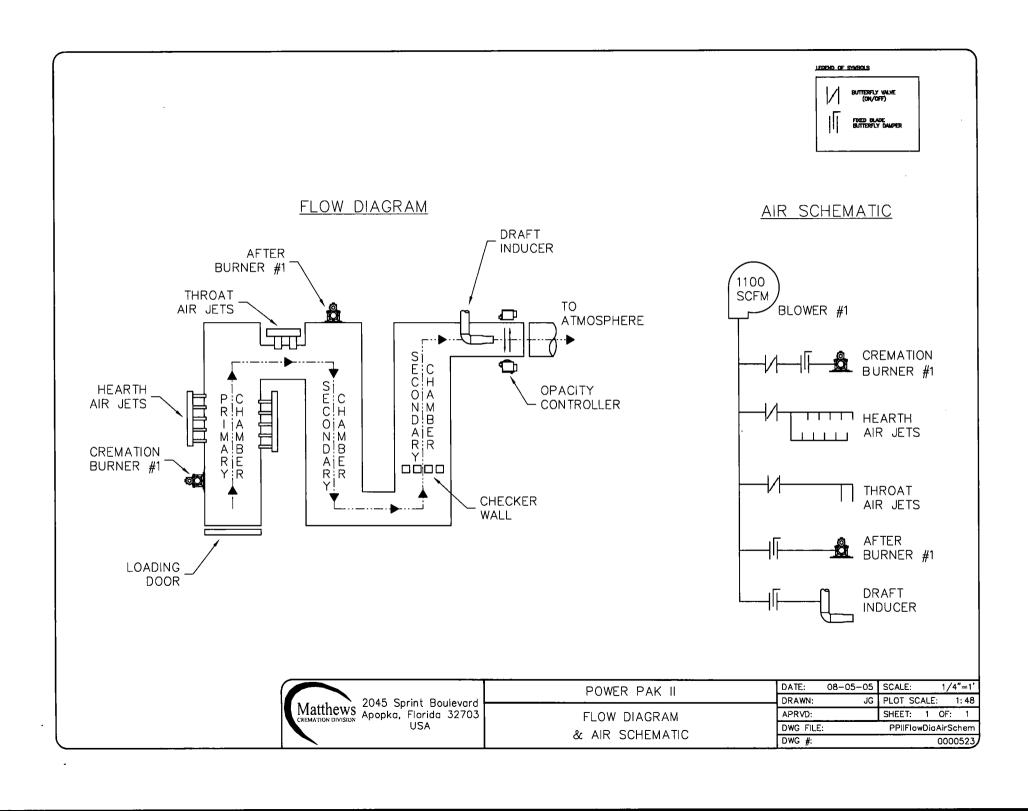
#### STACK INSTALLATION INSTRUCTIONS

- RECOMMENDED MINIMUM TOP. (2) [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] [0.91 m] 32 INCHES [812 mm] REAR: 3 FEET STACK: 6 INCHES [152 mm] 6 INCHES [152 mm]
- 1. FOR CLEARANCES OTHER THAN THOSE SHOWN, OR FOR SPECIAL REQUIREMENTS. CONSULT YOUR MCD REP.
- (2.) FROM HIGHEST POINT ON UNIT.
- 3. CONTROL CABINET MOUNTS ON UNIT'S LEFT OR RIGHT SIDES, OR REMOTELY. (SEE PLAN VIEW, SHEET 1).
- 4. REAR OF UNIT REFERS TO THE "BACK PLATE", RATHER THAN THE BACK OF THE "WHISPER SHIELD". (SEE PLAN VIEW,

- FUEL: A PRESSURE REGULATOR ADJUSTABLE TO 7" [178 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/HR1 DEPENDING UPON AMOUNT OF BURNERS.
- ELECTRICAL: 230 VOLT. 3ø, (40A BREAKER) AND 115v (10A BREAKER), OR 230 VOLT. 1¢, (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].

- 1. 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.
- 2. INSTALL STORM COLLAR ON STACK, 3" [76 mm] ABOVE NON-COMBUSTIBLE LINER (FLASHING), ALLOWING FOR PROPER VENTILATION (SEE DETAIL).
- 3. 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)
- 4. STORM COLLAR IS FURNISHED BY MCD. THE NON-COMBUSTIBLE LINER (FLASHING) TO BE PROVIDED BY THE OTHERS.
- 5. IF FIFTY PERCENT OF THE STACK LENGTH IS ABOVE THE ROOF, GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR MCD REP.
- 6. RAIN CAP NOT REQUIRED.





# **Calculation Of Emissions**

# **Potential to Emit**

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

Total Incen	erator Burn			lb/hr of re	emains (type 4)	and associated	conta	iners (type 0)
Flue gas flo	w rate =	1179	5 dscfm	12	Hours/Day X	6 Days/We	ek X	52 Weeks/Year
(	100	% Exces	s Air)		= 3744	Hours/Year		
Total Emis	sion Rate	= Incin	erator Burn	Rate X E	Emission Facto	r		
Sulfer Diox	ide (SO <sub>2</sub> )							
	150	lb/hr X	2.5	lb/ton X	1 ton		=	0.188 lb/hr
-		,		,	2000 lbs	=	=	0.351 TPY
	0.4075		4 545 . 05	/// >/	_			46.05
-	0.1875		4.54E+05	mg/lb X min/hr X	1 ppmv 0.0283 m <sup>3</sup> /f <sup>3</sup> X	2.61 mg/m <sup>3</sup>	=	16.35 ppmv
	11/5	dscfm X	60	minynir X	U.U283 III /I A	2.01 1119/111		
Nitrogen O	<u>xide (NOx -</u>	as Nitro	gen Dioxide)	!				
	150	lb/hr X	3	lb/ton X	1 ton		=	0.225 lb/hr
-		·		· · · · · · · · · · · · · · · · · · ·	2000 lbs	-	=	0.4212 TPY
	0.225	lh/hr V	4.54E+05	ma/lh Y	1 ppmv		=	27.53 ppmv
-		dscfm X		min/hr X	0.028 m <sup>3</sup> /f <sup>3</sup> X	1.88 mg/m <sup>3</sup>	_	27.33 ppinv
	1175 (	useiiii X	00		0.020 m / · · ·	1.009,		
<u>Hydrocarbo</u>	ons (TOC/VC	OC - met	<u>:hane)</u>					
_	150	lb/hr X	3	lb/ton X	1 ton		=	0.225 lb/hr
_					2000 lbs	-	=	0.4212 TPY
	0.225	h/hr Y	4.54E+05	ma/lb Y	1 ppmv		=	78.77 ppmv
-		dscfm X		min/hr X	0.0283 m <sup>3</sup> /f <sup>3</sup> X	0.65 mg/m <sup>3</sup>		70.77 pp•
	22/3	200		,	0.0200,	5,55 mg, m		
Lead (Pb)	(	6.62E-05	lbs/cremation	)				
_	150	lb/hr X	0.0000662	lb Pb		_	=	1E-04 lb/hr
_			100	lb			=	0.0002 TPY
<u>Particulates</u>	(PM & PM	دم	(Actual Levels	s lower as s	shown by test resu	ılts)		
	450	IIa /Ia V	-	lla/ta== V	1 4			0 E3E lb/b=
-	150	lb/hr X	7	lb/ton X	1 ton 2000 lbs	-	=	0.525 lb/hr 0.9828 TPY
					2000 103		_	0.5020 11 1
	0.525 I	b/hr X	7.00E+03				=	0.05 gr/dscf
_	1175 c	dscfm X	60	min/hr	-			
Carbon Mon	oxide (CO)		(Actual Levels	lower as s	shown by test resu	ılts)		
	150	lb/b= V	10	lh/to= V	1 4		_	0.75 lb/b-
_	150	lb/hr X	10	lb/ton X	1 ton 2000 lbs	-	=	0.75 lb/hr 1.404 TPY
					2000 103		_	1,101 11 1
_	0.75 II	b/hr X	4.54E+05	mg/lb X	1 ppmv		=	151.31 ppmv
_	1175 -	1E V		! V	0.020 m <sup>3</sup> /e <sup>3</sup> V	1 14 ma/m <sup>3</sup>		

 $0.028 \text{ m}^3/\text{f}^3 \text{ X} \quad 1.14 \text{ mg/m}^3$ 

### Notes:

1. Incinerator Emissions based on EPA emissions from Table 2.1-12 of AP-42 (5th Edition)

60 min/hr X

2. All conversion factors from AP-42 Appendix A.

1175 dscfm X

# **Calculation Of Emissions**

# **Expected Emissions**

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

Total Incer Flue gas flo (	ow rate = 1175		Hours/Day X	and associated co 7 Days/Week Hours/Year	
Total Emi	ssion Rate = Incin	erator Burn Rate X I	Emission Facto	r	
Sulfer Diox	kide (SO <sub>2</sub> )				
	150 lb/hr X	2.5 lb/ton X	1 ton 2000 lbs	-	= 0.188 lb/hr = 0.819 TPY
	0.1875 lb/hr X	4.54E+05 mg/lb X	1 ppmv		= 16.35 ppmv
	1175 dscfm X	60 min/hr X	0.0283 m <sup>3</sup> /f <sup>3</sup> X	2.61 mg/m <sup>3</sup>	
<u>Nitrogen O</u>	xide (NOx - as Nitro	gen Dioxide)			
	150 lb/hr X	3 lb/ton X	1 ton 2000 lbs	-	= 0.225 lb/hr = 0.9828 TPY
	0.225 lb/hr X 1175 dscfm X	4.54E+05 mg/lb X 60 min/hr X	1 ppmv 0.028 m <sup>3</sup> /f <sup>3</sup> X	1.88 mg/m <sup>3</sup>	= 27.53 ppmv
Hydrocarbo	ons (TOC/VOC - met	<u>hane)</u>			
	150 lb/hr X	3 lb/ton X	1 ton		= 0.225 lb/hr
			2000 lbs	•	= 0.9828 TPY
	0.225 lb/hr X				= 78.77 ppmv
	1175 dscfm X	60 min/hr X	0.0283 m <sup>3</sup> /f <sup>3</sup> X	0.65 mg/m <sup>3</sup>	
Lead (Pb)	( 6.62E-05	b lbs/cremation)			
	150 lb/hr X	0.0000662 lb Pb		_	= 1E-04 lb/hr
		100 lb			= 0.0004 TPY
<u>Particulate</u>	es (PM & PM10)	(Actual Levels lower as	shown by test resu	ılts)	
	150 lb/hr X	7 lb/ton X	1 ton	_	= 0.525 lb/hr
			2000 lbs		= 2.2932 TPY
	0.525 lb/hr X	7.00E+03 gr/lb X	<u>.</u>		= 0.05 gr/dscf
	1175 dscfm X	60 min/hr			
Carbon Mo	noxide (CO)				
	150 ib/hr X	10 lb/ton X	1 ton		= 0.75 lb/hr
			2000 lbs		= 3.276 TPY
	0.75 lb/hr X	4.54E+05 mg/lb X	1 ppmv	<del></del>	= 151.31 ppmv
	1175 dscfm X	60 min/hr X	0.028 m <sup>3</sup> /f <sup>3</sup> X	1.14 mg/m <sup>3</sup>	

#### 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.

# CREMATOR MASS BALANCE Matthews Cremation PPII

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.

WAS TE TYPE	TÝPE 0	···· <del>····</del>	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
			140
HOURLY CONSUMPTION OF WASTE (LBS)	10		140
1. MASS OF PRODUCTS OF COMBUSTION FROM CONTAINER			
A. COMBUSTION AIR			
8500 BTU/LB x	0.075 LB/CF OF AIR	=	6.38 LB/LB BURNED
<del></del>	0.073 LB/CF OF AIR	-	0.38 LB/LB BORNED
100 BTU/CF OF AIR*			
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			
	0.075 LB/CF OF AIR	=	0.75 LB/LB BURNED
100 BTU/CF OF AIR*			
B. COMBUSTIBLES AND WATER VAPOR	FROM CHART ABOVE	=	0.95 LB/L8 BURNED
C. TOTAL FLUE PRODUCT MASS PER LB BURNED		=	1.70 LB/LB BURNED
	CHEICATIONS	<del> </del>	<del></del>
PRIMARY RUBNER FUEL CONSUMPTION (MMRTII/HR)	CIFICATIONS		
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR)	CIFICATIONS:	0.5	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR)	CIFICATIONS	0.5 0.9	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM)	CIFICATIONS.	0.5 0.9 200	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F)	CIFICATIONS	0.5 0.9 200 1800	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT)	CIFICATIONS	0.5 0.9 200 1800 74	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT)	CIFICATIONS	0.5 0.9 200 1800 74 2.44	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE ("F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT) FLAME PORT AREA (SQ. FT)	CIFICATIONS	0.5 0.9 200 1800 74 2.44 2.95	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT)	CIFICATIONS	0.5 0.9 200 1800 74 2.44	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE ("F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT) FLAME PORT AREA (SQ. FT)	CIFICATIONS:	0.5 0.9 200 1800 74 2.44 2.95	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT) FLAME PORT AREA (SQ. FT) MIXING BAFFLES AREA (SQ. FT)	CIFICATIONS	0.5 0.9 200 1800 74 2.44 2.95	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT) FLAME PORT AREA (SQ. FT) MIXING BAFFLES AREA (SQ. FT)  *AIR AT STANDARD CONDITIONS	CIFICATIONS	0.5 0.9 200 1800 74 2.44 2.95	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT) FLAME PORT AREA (SQ. FT) MIXING BAFFLES AREA (SQ. FT)  *AIR AT STANDARD CONDITIONS  3. TOTAL FLUE PRODUCTS	4.8E-05 LBS/BTU	0.5 0.9 200 1800 74 2.44 2.95	24 LBS/HR
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT) FLAME PORT AREA (SQ. FT) MIXING BAFFLES AREA (SQ. FT)  *AIR AT STANDARD CONDITIONS  3. TOTAL FLUE PRODUCTS  A. MAXIMUM PRIMARY BURNER GAS USAGE		0.5 0.9 200 1800 74 2.44 2.95 1.36	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT) FLAME PORT AREA (SQ. FT) MIXING BAFFLES AREA (SQ. FT)  *AIR AT STANDARD CONDITIONS  3. TOTAL FLUE PRODUCTS  A. MAXIMUM PRIMARY BURNER GAS USAGE		0.5 0.9 200 1800 74 2.44 2.95 1.36	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT) FLAME PORT AREA (SQ. FT) MIXING BAFFLES AREA (SQ. FT)  *AIR AT STANDARD CONDITIONS  3. TOTAL FLUE PRODUCTS  A. MAXIMUM PRIMARY BURNER GAS USAGE  500000 BTU/HR X  B. COMBUSTION AIR FOR PRIMARY BURNER	4.8E-05 LBS/BTU	0.5 0.9 200 1800 74 2.44 2.95 1.36	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT) FLAME PORT AREA (SQ. FT) MIXING BAFFLES AREA (SQ. FT)  *AIR AT STANDARD CONDITIONS  3. TOTAL FLUE PRODUCTS  A. MAXIMUM PRIMARY BURNER GAS USAGE  500000 BTU/HR X	4.8E-05 LBS/BTU	0.5 0.9 200 1800 74 2.44 2.95 1.36	24 LBS/HR
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT) FLAME PORT AREA (SQ. FT) MIXING BAFFLES AREA (SQ. FT)  *AIR AT STANDARD CONDITIONS  3. TOTAL FLUE PRODUCTS  A. MAXIMUM PRIMARY BURNER GAS USAGE  500000 BTU/HR X	4.8E-05 LBS/BTU	0.5 0.9 200 1800 74 2.44 2.95 1.36	24 LBS/HR
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR) SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR) ADDITIONAL SECONDARY AIR SUPPLIED (CFM) SEC. CHAMBER OPERATING TEMPERATURE (*F) SECONDARY CHAMBER VOLUME (CU. FT) SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT) FLAME PORT AREA (SQ. FT) MIXING BAFFLES AREA (SQ. FT)  *AIR AT STANDARD CONDITIONS  3. TOTAL FLUE PRODUCTS  A. MAXIMUM PRIMARY BURNER GAS USAGE  500000 BTU/HR X  500000 BTU/HR X  100 BTU/CF AIR	4.8E-05 LBS/BTU	0.5 0.9 200 1800 74 2.44 2.95 1.36	24 LBS/HR

4	D.	COMB	USTION AIR I	FUK SE	CUNDARY	BURNER							
			900000 B	STU/HR	×		1	x		0.075 LB/CF AIR	t =	675	LBS/HOUR
			100 B	TU/CF A	AIR	_	Burner	r					
,	E.	PRODE	UCTS FROM	TYPE O	WASTE (C	CONTAINER,	)						
		7.33	LBS/LB BURN	NED	x	10	LB/HR B	SURN RATE			=	73	LBS/HOUR
ı	F.	PRODU	UCTS FROM	TYPE 4	WASTE (T	TSSUE)							
		1.70	LBS/LB WAS	TE	x	140	LB/HR B	URN RATE			£	238	LBS/HOUR
(	G.	ADDIT	IONAL SECO	NDARY	CHAMBER	COMBUST	ION AIR (	(THROAT .	AIR)				
		12000	CF/HR*	x		0.075	LB/CF A	NR.			=	900	LBS/HOUR
,	Н.	TOTAL	. FLUE PRO	DUCTS							=	2328	LBS/HOUR
2. VELOCI	ΙΥ	AND	TIME CALCU	LATION	ıs								
,	4.	SCFM	CALCULATIO	PN		(PRODUCT	S ASSUMI	ED TO HAV	'E DENSIT	TY CLOSE TO AIR	)		
		2328	LBS/HR	×		STD. CU. MIN/HR	FT/LB				=	518	SCFM
ı	В.	TOTAL	PRODUCTS	ACFM	@		1800	F					
_			*RANKINE *RANKINE	:	×	518.1	CFM				=	2209	ACFM
[a	С.	RETEN	ITION TIME										
-			CU. FT	x		SECONDS	_	_			=	2.01	SECONDS
<b>i</b>		,	ACFM			MINUTE							I
L	D.		CITY IN FLAN	WE POF									
_			SQ. FT	x		SECONDS		_			=	12.5	FEET/SECOND
£	Ξ.	VELOC	TTY AT MIXI	NG BA	FFLES								
_			ACFM SQ. FT	×		MINUTE		_			=	27.1	FEET/SECOND
ı	ξ.		ITY IN SECO	ONDAR									
,	•		ACFM	x		MINUTE					=	15.1	FEET/SECOND
_	_		SQ. FT	^		SECONDS		_			_	13.1	. cerysecond

D. COMBUSTION AIR FOR SECONDARY BURNER

# SACRAMENTO MEMORIAL LAWN

Sacramento, CA

# **Compliance Emissions Test Report**

Particulate Matter Emissions Results

Matthews Cremation Division Model IE43 PowerPak II Cremator

(ATC #20795)

Test Date(s): January 7, 2009 Report Date: January 23, 2009

# **Test Location:**

Sacramento Memorial Lawn 6100 Stockton Blvd. Sacramento, CA 95824

# Performed and Reported by:

**BEST ENVIRONMENTAL (BE)** 

6261 Southfront Road Livermore, CA 94551 Phone: (925) 455-9474

Fax: (925) 455-9479

# Prepared For:

Attn: Teresa Guyan StoneMor Partners L.P. Sacramento Memorial Lawn 6100 Stockton Blvd. Sacramento, CA 95824

# For Submittal To:

Attn: Ady Santos Sacramento Metropolitan Air Quality Management District 777 12<sup>th</sup> Street, 3<sup>rd</sup> floor Sacramento, CA 95814-1908

### **SECTION 1. INTRODUCTION**

# 1.1. Test Purpose

Best Environmental was contracted by Sacramento Memorial Lawn to perform Particulate emissions testing on the Matthews Cremation Division Model IE43 Power-Pak II Cremator, located at Sacramento Memorial Lawn, in order to comply with the Sacramento Metropolitan Air Quality Management District (SMAQMD) Permit to Construct #20795. The test results are presented in Table 2.1 on Page 2. A copy of the Permit to Construct is included in Appendix K.

# 1.2. Test Location

The testing was conducted on the exhaust outlet of the Cremator, which is located at Sacramento Memorial Lawn, 6100 Stockton Blvd, Sacramento, CA.

# 1.3. Test Date(s)

Testing was conducted on January 7, 2009.

# 1.4. System Processes

The cremator is equipped with a 0.7 MMBtu/hr primary burner and a 1.2 MMBtu/hr secondary burner. There are no filtration or scrubbing devices used on this system.

#### 1.5. Pollutants Tested

The following emission parameters were measured:

Parameter	Monitoring & Analytical Protocols
Volumetric Flow Rate	CARB Methods 1-4
PM (Filterable & Condensable)	CARB Method 5
$O_2$ , $CO_2$	Modified CARB Method 100

# 1.6. Sampling and Observing Personnel

Emissions sampling was performed by Suhail Asfour and Ross Hipple of BEST ENVIRONMENTAL (BE).

Ady Santos from the SMAQMD was present to witness the testing.

# 1.7. Other Important Background Information

A total of three human bodies were cremated during the source test, one for each run.

# **SECTION 2. SUMMARY OF RESULTS**

#### 2.1. Emission Results

# Table 2.1: PARTICULATE - SUMMARY TABLE

### ATC #20795 1.9 MMBtu/hr Cremator

Parameter	Average	Limit
Stack Flow, DSCFM	956	
Total Particulate Matter (PM), gr/dscf @ 12% CO2	0.0475	0.10

A more extensive summary of the emissions is presented in Table 1 following the text.

# 2.2. Identification of Deviations from Standard Testing Procedures

CO<sub>2</sub> and O<sub>2</sub> were measured using CARB Method 100, modified to exclude the use of a system bias line. Calibration checks were performed using the system manifold of the test van. This method modification was approved by the SMAQMD (see Appendix J).

# 2.3. Testing or Process Interruptions and Changes

No interruptions occurred during the source test.

# 2.4. Process Data, as related to the Determination of Compliance

The cremator was operated at a temperature at or above of 1800°F throughout the testing.

# 2.5. Description of Collected Samples

Following testing all particulate samples are recovered and/or sealed onsite and placed into prelabeled containers for shipment. The front and back half glass; nozzle, probe, filter housing and impingers used for particulate testing were rinsed on site after each run per method guidelines. All recoveries were placed into appropriately labeled containers.

A Chain of Custody (COC) was filled out for all samples to ensure proper handling and analysis.

# 2.6. Comments: Discussion of Quality Assurance and Errors

Quality assurance procedures listed in the above referenced test methods and referenced in the Source Test Plan are performed and documented. The QA/QC procedures are described in Section 4.5 of the report. Documentation of the QA/QC is provided in Appendix A, B & D.

A preliminary cyclonic flow check was performed prior to testing. The average stack angle was well below 10°, therefore a cyclonic test using the alignment technique, was not necessary and was not performed.

All emission rates and factors are calculated based on the CARB Methods 1-4 flow data.

# TABLE #1

# Sacramento Memorial Lawn

# PM<sub>10</sub> Emissions Results Crematory (ATC #20795)

RUN#	1	2	3	AVERAGE	LIMITS
TEST DATE	01/07/09	01/07/09	01/07/09		
TEST TIME	0956-1100	1203-1307	1419-1523		
PRODUCTION RATE, lbs/Hr	160.0	130.0	140.0	143.3	
SAMPLE VOLUME (DSCF)	37.013	35.493	36.252	36.253	
ISOKINETIC (%)	107.5	102.6	103.1	104.4	
DUCT TEMP., (°F)	882.3	816.5	776.3	825.0	
VELOCITY (fl/sec)	20.14	19.74	19.48	19.79	
FLOW RATE (ACFM)	2,634	2,581	2,548	2,588	
FLOW RATE (DSCFM)	948	952	968	956	
H <sub>2</sub> O (volume %)	9.39	11.63	11.88	10.96	
O <sub>2</sub> (volume %)	11.39	11.92	14.36	12.56	
CO <sub>2</sub> (volume %)	6.10	5.86	4.22	5.39	
F.H. Particulate Rinse Conc. (gr/DSCF)	0.0004	0.0021	0.0005	0.0010	
F.H. Particulate Rinse Emissions (Lbs/hr)	0.004	0.017	0.005	0.009	
F.H. Particulate Filter Conc. (gr/DSCF)	0.0115	0.0187	0.0159	0.0154	
F.H. Particulate Filter Emissions (Lbs/hr)	0.093	0.153	0.132	0.126	
Total F.H. Particulate Conc. (gr/DSCF)	0.0120	0.0209	0.0164	0.0164	
Total F.H. Particulate Emissions (Lbs/hr)	0.097	0.170	0.136	0.135	
Organic Particulate Conc. (gr/DSCF)	0.0003	0.0005	0.0002	0.0003	
Organic Particulate Emissions (Lbs/hr)	0.002	0.004	0.002	0.003	
Inorganic Particulate Conc. (gr/DSCF)	0.0036	0.0052	0.0034	0.0041	
Inorganic Particulate Emissions (Lbs/hr)	0.030	0.042	0.028	0.033	
Tot. Particulate Conc. (gr/DSCF)	0.0158	0.0265	0.0201	0.0208	
Tot. Particulate Conc.(gr/DSCF)@12%CO2	0.0312	0.0543	0.0570	0.0475	0.10
Tot. Particulate Emissions (Lbs/hr)	0.1287	0.2165	0.1663	0.1705	
Tot. Particulate Emissions (Lbs/day)	1.2867	2.1647	1.6635	1.7050	

# WHERE

DSCF = Sample Volume in Dry Standard Cubic Feet

ACFM = Actual Cubic Feet per Minute

DSCFM = Dry Standard Cubic Feet per Minute

H<sub>2</sub>O, volume % = Stack gas percent water vapor

gr/DSCF = Particulate concentration in grains per DSCF

F.H. Particulate = Filterable Particulates

Organic Particulate = Condensible Organic Particulate (solvent extract)

Inorganic Particulate = Condensible Inorganic Particulate (Acids & Sulfates)

TPH = Tons per Hour

#### **CALCULATIONS**

Lbs/hr Emission Rate = 0.00857 \* gr/DSCF \* DSCFM

Lbs/ton Emission Factor = lbs/hr / TPH

Tot. Particulate Concentration @ 12% CO2 = gr/DSCF \* 12 / CO2%

Lbs/day Emission Rate = lbs/hr \* 10



# **Cremation Division**

August 24, 2011

Kenneth Roberson Roberson Funeral Home 2151 Tamiami Trail Port Charlotte, FL 33949

Dear Mr. Roberson,

Enclosed are your permit application forms for the Air General Permit Registration for your new Power Pak II human cremator that will replace your existing Crawford C1000 cremator. Please fill in the highlighted areas and make 1 copy of the entire packet. Once completed, you can keep a copy for your records and send the original signed copy to the following address (along with a \$100 check payable to Florida Department of Environmental Protection):

FDEP Receipts
Attn: Dick Dibble
P.O. Box 3070
Tallahassee, FL 32803-7555

Please feel free to contact us if you have questions at (800)327-2831. When you finally receive the permit, please fax or mail us a copy so that we can put it in your file.

Sincerely,

Michael/Tricoche

Engineer

Enclosures



ALL

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