

HUMAN CREMATORIES

Air General Permit Example Registration Worksheet

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.

If you are the owner or operator of an eligible facility comprising one or more human crematories, you 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 subsections 62-210.310(2) and 62-210.310 (5), F.A.C. To register, use the Department's electronic registration system (currently under development) or submit all the information specified in the above rules to either of the following addresses, along with the air general permit registration processing fee (\$100.00), payable to FDEP.

Regular USPS Mail Delivery

Department of Environmental Protection Receipts or Post Office Box 3070 Tallahassee, Florida 32315-3070

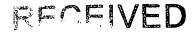
Overnight Delivery (FedEx, UPS, DHL, etc.)

Department of Environmental Protection 3800 Commonwealth Blvd. Mail Station 77 Tallahassee, Florida 32399

If you properly register to use an air general permit, and are not denied use of the air general permit by the Department, you are authorized to construct and operate the facility in accordance with the general terms and conditions of Rule 62-210.310, F.A.C., and the specific terms and conditions of Rule 62-210.310(5)(c), F.A.C. Your facility may vary, so be sure your registration describes the operations at your facility in sufficient detail to demonstrate the facility's eligibility for use of the air general permit and to provide a basis for tracking any future equipment or process changes. Your registration should describe all air pollutant-emitting processes and equipment at the facility, and it should identify any air pollution control measures or equipment used.

The rules do not require any specific format for the registration. This worksheet, however, has been designed to assist owners and operators. Using it as a template for a general permit registration will help ensure that all necessary information is submitted.

Additional information can be found on the Department's air general permit program website (http://www.floridadep.org/air/emission/air_gp.htm) or by calling the Small Business Environmental Assistance Program Hotline at 1-800-SBAP-HLP (1-800-722-7457).



OCT 16 2012

HUMAN CREMATORIES AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHIEGEMENT

Facility Identification Number - If known (seven digit number)
Registration Type
Check one:
INITIAL REGISTRATION - Notification of intent to:
 Construct and operate a proposed new facility. Operate an existing permitted 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). 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. (See "Surrender of Existing Air Operation Permit(s)" below.)
Operates an existing facility not currently permitted or using an air general permit.
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.
Any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.
All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s):
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.) — Charlotte Funeral Sewices. LLC albla Charlotte Memory. Funeral Home and
Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a complete registration must be submitted for each.) — Charloffe Hemorial
Facility Location (Physical location of the facility, not necessarily the mailing address.) Street Address: 9400
Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility.)
- December 15, 2012

Facility Contact
Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)
Print Name and Title: Michael S. Fuller - Hanagus Pantner
Facility Contact Telephone Numbers Telephone: 941 - 639 - 1171
Facility Contact Mailing Address Organization/Firm:Chaylotle Funeral Services, LC C Mailing Address:albla Chaylotle Nemweal Found Hume ad Cemetry City: auro Indian Sprap Cemetaupty Rd Chaylotle
Correspondence Contact/Representative (to serve as additional Department contact)
Name and Position Title Print Name and Title: RICL TUSS - Managing Partner
Correspondence Contact/Representative Telephone Numbers Telephone: 941-639-1171 Fax: Cell phone: 941-809-1529 E-mail: 11ckfuss@comcast.nef
Correspondence Contact/Representative Mailing Address Organization/Firm:
Mailing Address: City: Zip Code:
Government Facility Code (check only one)
Facility not owned or operated by a federal, state, or local government.
Facility owned or operated by the federal government.
Facility owned or operated by the state.
Facility owned or operated by the county.
Facility owned or operated by a water management district
Facility owned or operated by a water management district.

Emission Unit Details

MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	RATED CAPACITY
Matthews Cremation Division	IE43-PPII - Plus	Assigned when built - T.B.D.	175 lbs/hr
			

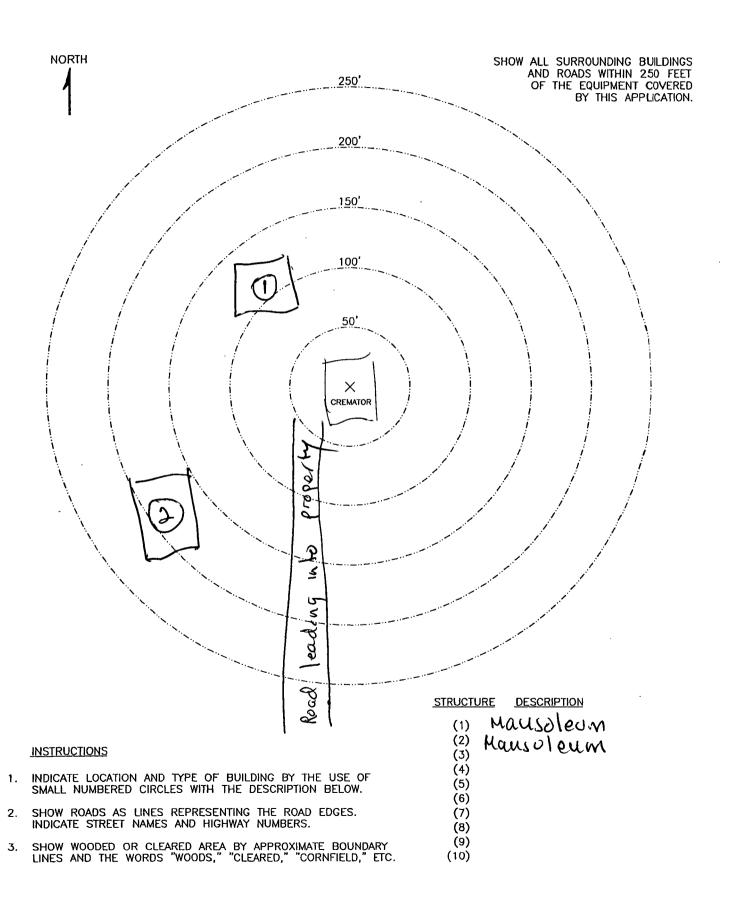
Design Calculations

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

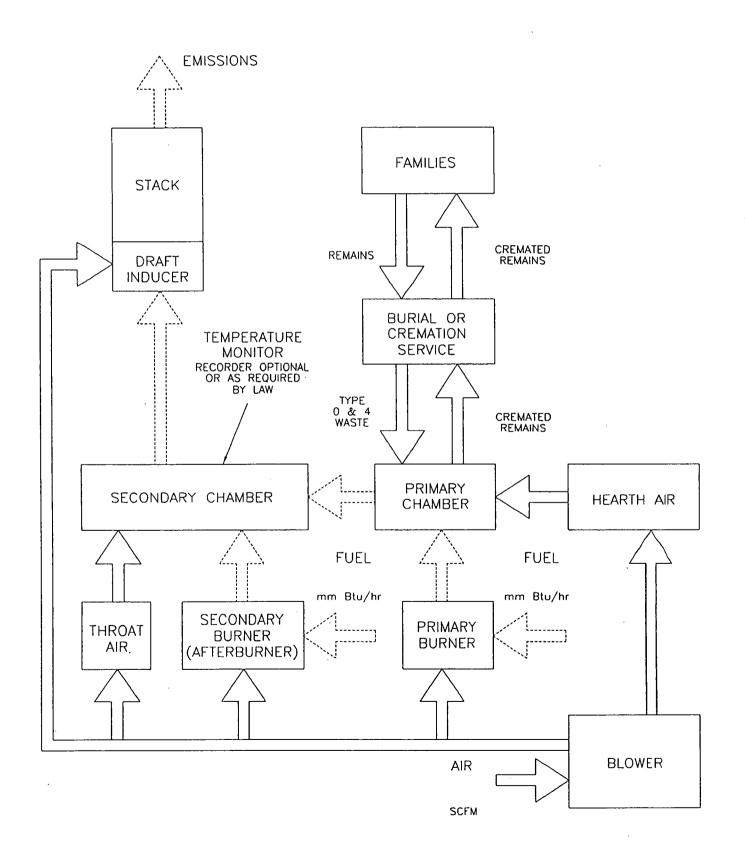
Helpful Definitions

- "Biomedical Waste" Any solid or liquid waste which may present a threat of infection to humans, including nonliquid-tissue, body parts, blood, blood products, and body fluids from humans and other primates; laboratory and veterinary wastes which contain human disease-causing agents; and discarded sharps. The following are also included:
- 1. Used absorbent materials saturated with blood, blood products, body fluids, or excretions or secretions contaminated with visible blood; and absorbent materials saturated with blood or blood products that have dried.
- 2. Non-absorbent, disposable devices that have been contaminated with blood, body fluids, or secretions or excretions visibly contaminated with blood, but have not been treated by a method listed in Section 381.0098, F.S., or a method approved pursuant to Rule 64E-16, F.A.C.
- "Department" or "DEP" The State of Florida Department of Environmental Protection.
- "Emissions Unit" Any part or activity of a facility that emits or has the potential to emit any air pollutant.
- "Facility" All of the emissions units which are located on one or more contiguous or adjacent properties, and which are under the control of the same person (or persons under common control).
- "Human Crematory" Any combustion apparatus used solely for the cremation of either human or fetal remains
- "Owner" or "Operator" Any person or entity who or which owns, leases, operates, controls or supervises an emissions unit or facility.

PLOT PLAN



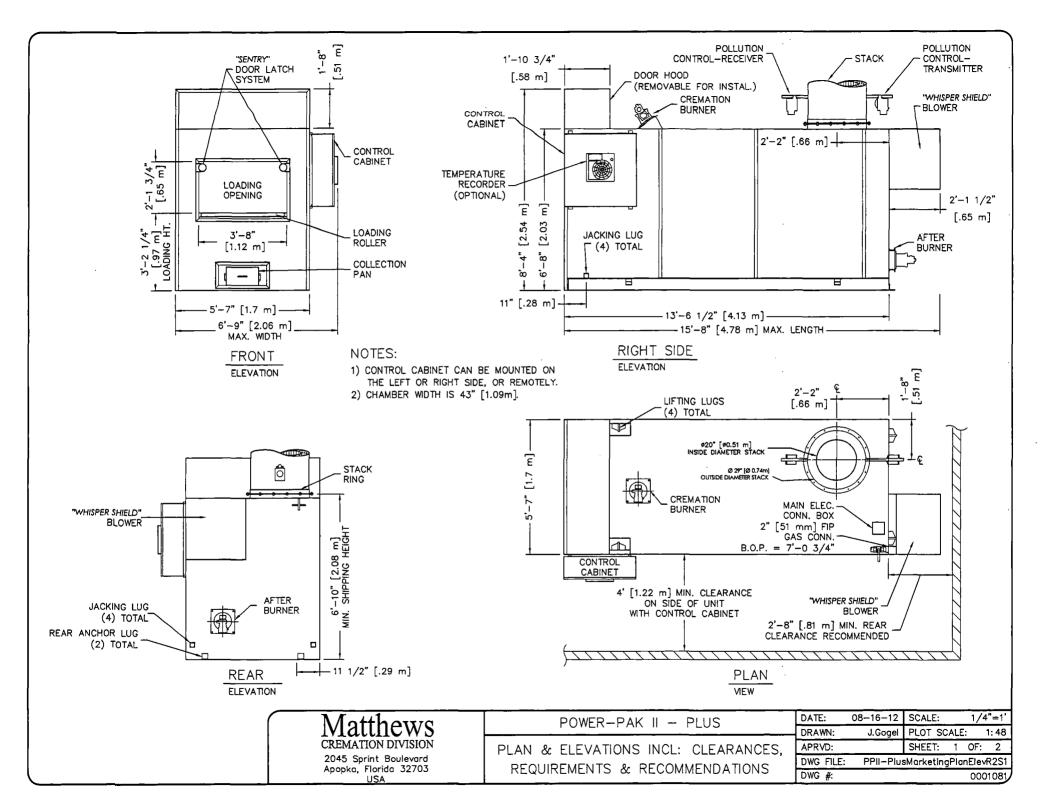
PROCESS FLOW DIAGRAM CREMATOR



1.	Equipment TypeA. Model NoB. Underwriters Laboratories Listing and File No	
2.	Dimensions A. Footprint B. Maximum Length C. Maximum Width D. Maximum Height E. Chamber Loading Opening	15' - 8" (4.78 m) 6' -9" (2.06 m) 8' - 4" (2.54 m)
3.	Weight	28,000 lbs. (12,700 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) 11 inches (279.4 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	175 lbs./hr. (79 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 B. Front/Rear Plates C. Floor Plates D. Outer Side Casing E. Inner Side Casing	3/8" (9.5 mm) plate 3/16" (5 mm) plate 12 gauge (3 mm) plate
9.	Stack Construction A. Inner Wall B. Outer Wall	
10.	Draft 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	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	
16.	 Emission Control Features A. Secondary Chamber with Afterburner	Included Included
17.	Operating Temperatures A. Primary Chamber B. Secondary Chamber	32° F 1,800° F. (0° 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
	Automatic Timer Functions A. Master Cycle	Included
26.	Exterior Finish A. Primer B. Finish	· · · · · · · · · · · · · · · · · · ·



CREMATOR CLEARANCES

CREMATOR REQUIREMENTS

STACK INSTALLATION INSTRUCTIONS

- RECOMMENDED MINIMUM TOP: (2) 2 FEET [610 mm] 6 INCHES [152 mm] CABINET SIDE: 4 FEET [1.22 m] 4 FEET [1.22 m] 6 INCHES [152 mm] OTHER SIDE: 2 FEET [610 mm] FRONT: 9 FEET [2.74 m] 8 FEET [2.44 m] 32 INCHES [812 mm] REAR: 3 FEET [0.91 m] 6 INCHES [152 mm] 6 INCHES [152 mm] STACK: .
- FOR CLEARANCES OTHER THAN THOSE SHOWN, OR FOR SPECIAL REQUIREMENTS, CONSULT YOUR MCD REP.
- 2.) FROM HIGHEST POINT ON UNIT.
- 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/HR] DEPENDING UPON AMOUNT OF BURNERS.
- ELECTRICAL: 230 VOLT, 3ø, (40A BREAKER) AND 115v (10A BREAKER), <u>OR</u> 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].

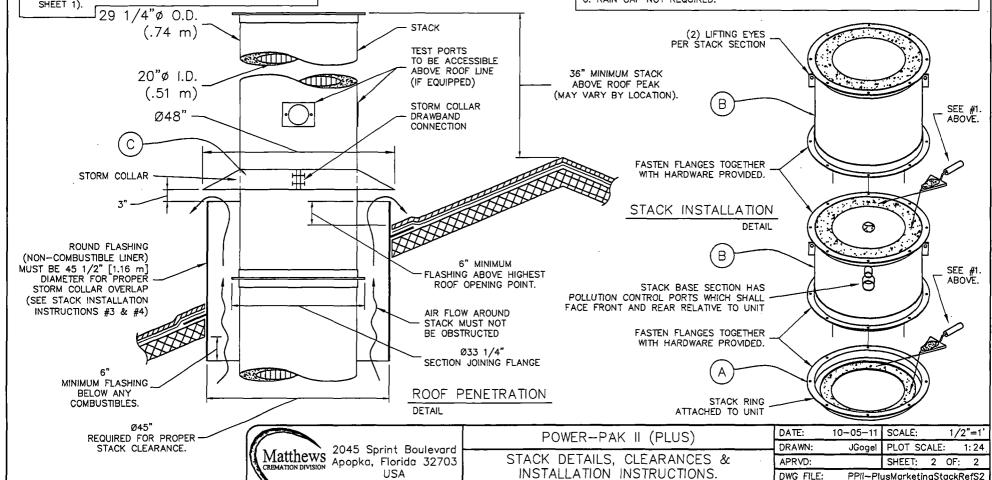
- 1. APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING. LOWER THE BASE STACK SECTION (B) ONTO STACK RING (A) AND FASTEN WITH HARDWARE PROVIDED (NO MORE THAN (2) STACK SECTIONS SHALL BE LIFTED TOGETHER). REPEAT PROCESS FOR REMAINING STACK SECTIONS. IF SECTIONS OF VARYING LENGTHS 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 \bigcirc AND THE STACK \bigcirc .
- 4. 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.

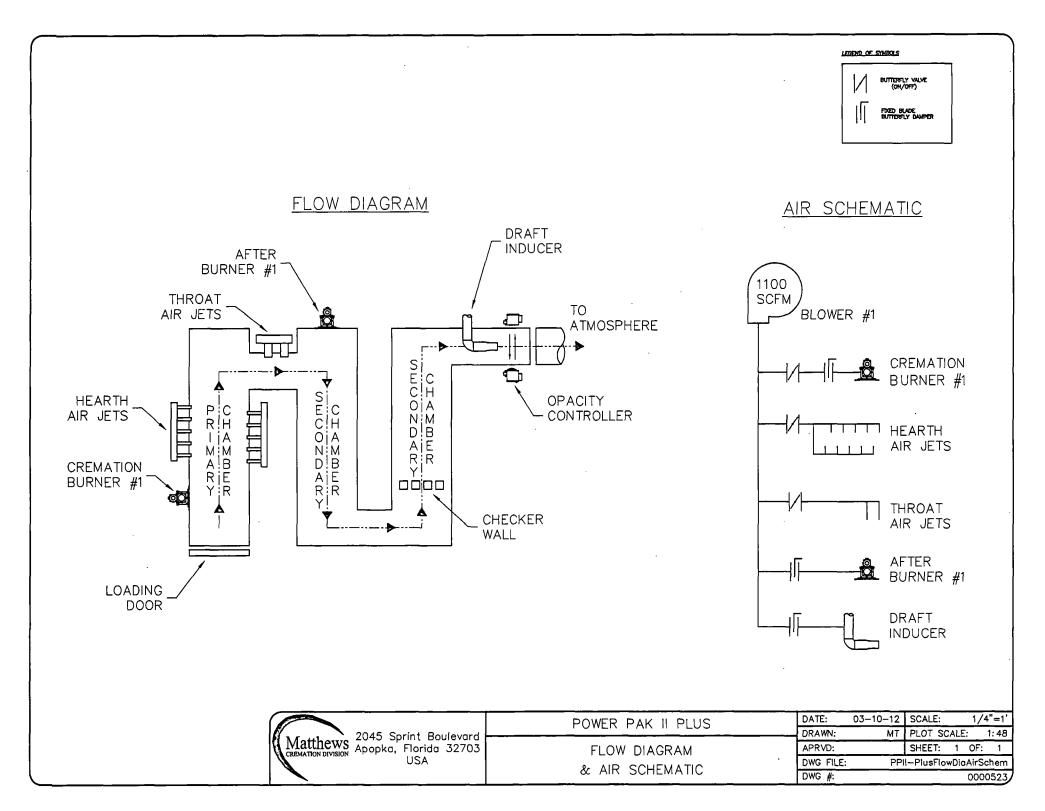
DWG #:

0001089

6. RAIN CAP NOT REQUIRED.

REFRACTORY STACK DETAIL





Calculation Of Emissions

Potential to Emit

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

. Total Incend Flue gas flot (erator Burn Capacit w rate = 1175 100 % Exces	dscfm 12	Hours/Day X	and associated co 6 Days/Week Hours/Year	
Total Emis	sion Rate = Incir	erator Burn Rate X	Emission Facto	or	
<u>Sulfer Dioxi</u>	ide (SO ₂)				
-	175 lb/hr X	2.5 lb/ton X	1 ton	-	= 0.219 lb/hr = 0.4095 TPY
_	0.21875 lb/hr X	4.54E+05 mg/lb X	1 ppmv		= 19.07 ppmv
	1175 dscfm X	60 min/hr X	0.0283 m ³ /f ³ X	2.61 mg/m³	
Nitrogen Ox	<u>cide (NOx - as Nitro</u>	gen Dioxide)			
<u>.</u>	175 lb/hr X	3 lb/ton X	1 ton	_	= 0.2625 lb/hr
			2000 lbs		= 0.4914 TPY
_	0.2625 lb/hr X	4.54E+05 mg/lb X	1 ppmv		= 32.11 ppmv
	1175 dscfm X	60 min/hr X	$0.028 \text{ m}^3/\text{f}^3 \text{ X}$	1.88 mg/m ³	
Hydrocarbo	ons (TOC/VOC - met	thane)			
_	175 lb/hr X	3 lb/ton X	1 ton	_	= 0.2625 lb/hr
			2000 lbs		= 0.4914 TPY
	0.2625 lb/hr X	4.54E+05 mg/lb X	1 ppmv		= 91.90 ppmv
_	1175 dscfm X	60 min/hr X	0.0283 m ³ /f ³ X	0.65 mg/m ³	
Lead (Pb)	(6.62E-0	5 lbs/cremation)			
_	175 lb/hr X	0.0000662 lb Pb		_	= 0.0001 lb/hr
		100 lb			= 0.0002 TPY
<u>Particulates</u>	s (PM & PM ₁₀)	(Actual Levels lower as	shown by test resu	ults)	
_	175 lb/hr X	7 lb/ton X	1 ton	-	= 0.6125 lb/hr
			2000 lbs		= 1.1466 TPY
	0.6125 lb/hr X	7.00E+03 gr/lb X			= 0.06 gr/dscf
	1175 dscfm X	60 min/hr		•	
<u>Carbon Moi</u>	noxide (CO)	(Actual Levels lower as	shown by test resu	ults)	
_	175 lb/hr X	10 lb/ton X	1 ton	_	= 0.875 lb/hr
			2000 lbs		= 1.638 TPY
	0.875 lb/hr X	4.54E+05 mg/lb X	1 ppmv		= 176.53 ppmv
-	1175 dscfm X	60 min/hr X	0.028 m ³ /f ³ X	1.14 mg/m ³	

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 Plus**

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			
TU PER POUND	8500		1000
OUND ASH PER POUND WASTE	0.05		0.05
OUND MOISTURE PER POUND WASTE	0.1		0.85
OUND COMBUSTIBLES PER POUND WASTE	0.85		0.1
OURLY CONSUMPTION OF WASTE (LBS)	10		165
MASS OF PRODUCTS OF COMBUSTION FROM CONTAINER			
A. COMBUSTION AIR			
8500 BTU/LB x 100 BTU/CF OF AIR*	0.075 LB/CF OF AIR	=	6.38 LB/LB BURNE
B. COMBUSTIBLES AND WATER VAPOR	FROM CHART ABOVE	=	0.95 LB/LB BURNE
C. TOTAL FLUE PRODUCT MASS PER LB BURNED		=	7.33 LB/LB BURNE
MASS OF PRODUCTS OF COMBUSTION FROM BODY			
A. COMBUSTION AIR			
1000 BTU/LB x 100 BTU/CF OF AIR*	0.075 LB/CF OF AIR	=	0.75 LB/LB BURNE
B. COMBUSTIBLES AND WATER VAPOR	FROM CHART ABOVE	=	0.95 LB/LB BURNE
C. TOTAL FLUE PRODUCT MASS PER LB BURNED		=	1.70 LB/LB BURNE
SPECIFIC	CATIONS	······································	
RIMARY BURNER FUEL CONSUMPTION (MMBTU/HR)		0.5	
ECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR)	<u> </u>	200	
DDITIONAL SECONDARY AIR SUPPLIED (CFM)	<u> </u>		
EC. CHAMBER OPERATING TEMPERATURE (*F) ECONDARY CHAMBER VOLUME (CU. FT)		1 800 96	
EC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT)		2.76	
LAME PORT AREA (SQ. FT)	 	2.95	
IIXING BAFFLES AREA (SQ. FT)		1.36	
			_
*AIR AT STANDARD CONDITIONS			

A.	MAXIMUM PRIMARY BURNER GAS USAG	Ε

500000 BTU/HR 4.5E-05 LBS/BTU 22.5 LBS/HR

B. COMBUSTION AIR FOR PRIMARY BURNER

0.075 LB/CF AIR = 375 LBS/HR 500000 BTU/HR x 1 100 BTU/CF AIR Burner

C. MAXIMUM SECONDARY BURNER GAS USAGE

900000 BTU/HR x 41 LBS/HOUR 4.5E-05 LBS/BTU

D.	COMB	JJIIONAM	7 ON SEC	DIVERNIE	UNIVER						
		900000	BTU/HR	«		1	x	0.075 LB/CF AIR	=	675 LBS/HOUR	₹
	•	100	BTU/CF AIR		-	Burner					
E.	PRODU	ICTS FROM	TYPE 0	WASTE (CO	ONTAINER)						
	7.33	LBS/LB BUR	RNED	×	10	LB/HR BUR	N RATE		=	73 LBS/HOUR	₹
F.	PRODU	ICTS FROM	ITYPE 4 V	WASTE (TI	SSUE)						
	1.70	LBS/LB WAS	STE	x	165	LB/HR BUR	IN RATE		=	281 LBS/HOUR	₹
G	ADDIT	IONAL SEC	ONDARY C	CHAMBER	COMBUSTI	ON AIR (TI	IROAT AIR)	,			
	12000	CF/HR*	x		0.075	LB/CF AIR			=	900 LBS/HOUR	₹
н	TOTAL	FLUE PRO	ODUCTS						=	2367 LBS/HOUR	1
ELOCIT	Y_AND_I	IME CALCI	ULATIONS								
<i>A</i> .	SCFM (CALCULATI	ON		(PRODUCT:	S ASSUMED	TO HAVE DE	ENSITY CLOSE TO AIR)			
										F07 00511	
	2367	L8S/HR	× -		MIN/HR	FT/LB			=	527 SCFM	
В.	TOTAL	PRODUCTS	S ACFM	@		1800	F				
_		RANKINE	x		526.6	CFM			=	2246 ACFM	
	***************************************	*RANKINE									
C.	RETEN	ITION TIME	.								
ļ		CU. FT ACFM	x		SECONDS MINUTE				=	2.57 SECONDS	s
L	***************************************				MINOTE						
D.	VELOC	ITY IN FLA	AME PORT								
_		ACFM	х _		MINUTE				=	12,7 FEET/SECO	DNC
	2.95	SQ. FT		60	SECONDS						
E.	VELOC	TTY AT MIX	XING BAFF	FLES							
_		ACFM	x -		MINUTE				=	27.5 FEET/SECO	DND
	1.36	SQ. FT		60	SECONDS						
F.	VELOC	ITY IN SEC	CONDARY	CHAMBER	?						
F.		ACFM	CONDARY ×		MINU <u>T</u> E				=	13.6 FEET/SECC	DND

D. COMBUSTION AIR FOR SECONDARY BURNER

Charlotte Memorial Funeral Home and Cemetery

9400 Indian Springs Cemetery Road Punta Gorda, Florida 33950

October 8, 2012

Florida Department of Environmental Protection Attn: Dick Dibble P.O. Box 3070

Tallahassee, FL 32315-3070

Dear Mr. Dibble:

Please accept this application for installing a new human cremation unit at Charlotte Memorial Funeral Home and Cemetery, 9400 Indian Springs Cemetery Road, Punta Gorda, Florida 33950. We plan on having the unit installed the middle of December.

Look forward to your response. Thank you in advance for your anticipated cooperation.

Very truly yours,

Michael S. Fuller

Managing Partner

RECEIVED

OCT 0 4 2012

HUMAN CREMATORIES DIVISION OF AIR AIR GENERAL PERMIT REGISTRATION INFORMATIORESOURCE MANAGEMENT

0870059: This is for 5-yr renewal of human crematory Permit No. 0870059-005-AG, which expires 10/29/2012.
Registration Type
Check one: INITIAL REGISTRATION - Notification of intent to: Construct and operate a proposed new facility. Operate an existing permitted 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). 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. (See "Surrender of Existing Air Operation Permit(s)" below.) Operates an existing facility not currently permitted or using an air general permit. 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. 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 Applicable All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s): N/A
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.) Dean-Lopez 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 complete registration must be submitted for each.) Dean-Lopez Crematory, Inc Big Pine Key
Facility Location (Physical location of the facility, not necessarily the mailing address.) Street Address: 31140 Overseas Highway City: Big Pine Key County: Monroe Zip Code: 33043
Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility.) N/A
THE STATE OF THE S

0870059 - Re-Registration, September 2012

Facility Contact		
Name and Position Title (Plant manager or person to be c	ontacted <u>regarding day-to-day op</u>	erations at the facility.)
Print Name and Title: Jeffrey Dean, Owner		•
Facility Contact Telephone Numbers		
Telephone: (305) 294-1066	Fax: ()	
Cell phone: (305) 684-0886 E-mail: deanlopezfh@yahoo.com		
L'amin dounioposine, juine social		
Facility Contact Mailing Address		
Organization/Firm: Dean-Lopez Crematory, Inc.		
Mailing Address: 418 Simonton Street City: Key West County: Monroe	Zip Code: 33040	
Other Contact/Representative (to serve as additional I	Department contact)	
Name and Position Title		
Print Name and Title: Lynn Robinson, P.E., Permitti	ng Manager	
Other Contact/Representative Telephone Numbers	e a company of the co	· · · · · · · · · · · · · · · · · · ·
Telephone: (813) 752-5014	Fax: (813) 752-2475	
Cell phone: (813) 957-8804		
E-mail: lrobinson@sesfla.com		
Other Contact/Representative Mailing Address	v	
Organization/Firm: Southern Environmental Science	es, Inc.	
Mailing Address: 1204 North Wheeler Street City: Plant City	County: Hillsborough	Zip Code: 33563
Government Facility Code (check only one)		
☐ Facility not owned or operated by a federal, st	tate, or local government.	
Facility owned or operated by the federal gove	rnment.	
Facility owned or operated by the state.		
Facility owned or operated by the county.		
Facility owned or operated by the municipality	7.	
Facility owned or operated by a water manage		1
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Page 2 of 3

Human Cremation

Re-Registration Information

0870059 - Re-Registration, September 2012

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Emission	Unit	Details

MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	RATED CAPACITY
EU 001:			
Matthews Cremation Group	IE43-Power-Pak II	#354378	100 lb/hr

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113	ACION .	f alcu	lations
v	COLKII	Value	IAUUUA

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

Facility Fuel & Controls

This re-registration is for an existing Matthews Cremation Group IE43-PPII human crematory unit. The unit is designed to burn human remains at the average incineration rate of 100 pounds per hour. The incinerator consists of primary and secondary (afterburner) chambers, each fired on natural gas or LPG.

Emissions are controlled by the afterburner, which maintains a minimum secondary chamber combustion zone temperature of 1600°F prior to and during combustion of material in the primary chamber. The secondary chamber is designed to ensure one second residence time at a gas temperature of 1800°F, and is equipped with a continuous temperature monitor and recorder.

The unit is equipped with an opacity monitor that controls (e.g. shuts down) the cremation burner if excess emissions are encountered in the stack.