FEA RECEIPT 784486 2012 JUL 20

RECEIVED

JUL 19 **2012**

HUMAN CREMATORIES DIVISION OF AIR AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSTORICE MANAGEMENT

Facility Identification Number - If known (seven digit number)
DOSOO93-00
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.
E operates an existing methy not currently permitted of using an an 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):
General Facility Information
<u>Facility Owner/Company Name</u> (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.) Hentage Funeral Home
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.) Heritage Cremation Center
Facility Location (Physical location of the facility, not necessarily the mailing address.)
Street Address: 5145 HWY. 98 City: Panama City County: Bay Zip Code: 32404 — 7217
Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility.) October 2012

HUMAN CREMATORIES AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHEET

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RECEIVE.
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a a

Facility Contact					
Name and Position Title (Plant manager or person to be con Print Name and Title: Justin Kent	tacted regarding day-to-day	operations at the facility.)			
Facility Contact Telephone Numbers Telephone: 850-785-1316	Fax: 850-914-2044				
Cell phone: 850-832-8558 E-mail: jmkent1973@yahoo.com					
Facility Contact Mailing Address					
Organization/Firm: Heritage Funeral Home					
Mailing Address: 247 N. Tyndall Parkway City: Panama City	County: Bay	Zip Code: <u>32404</u>			
Correspondence Contact/Representative (to serve as add	litional Department conta	ct)			
Name and Position Title Print Name and Title: David Lane					
Correspondence Contact/Representative Telephone Number Telephone: 850-785-1316 Cell phone: 850-814-2767 E-mail:	Fax: 850-914-2044				
Correspondence Contact/Representative Mailing Address Organization/Firm: Heritage Funeral Home Mailing Address: 247 N. Tyndall Parkway					
City: Panama City	County: Bay	Zip Code: <u>32404</u>			
Government Facility Code (check only one)					
 Facility not owned or operated by a federal, stat 	e, or local government.				
Facility owned or operated by the federal govern	nment.				
Facility owned or operated by the state.					
Facility owned or operated by the county.	Facility owned or operated by the county.				
Facility owned or operated by the municipality.					
Facility owned or operated by a water managen	nent 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
	 	†	

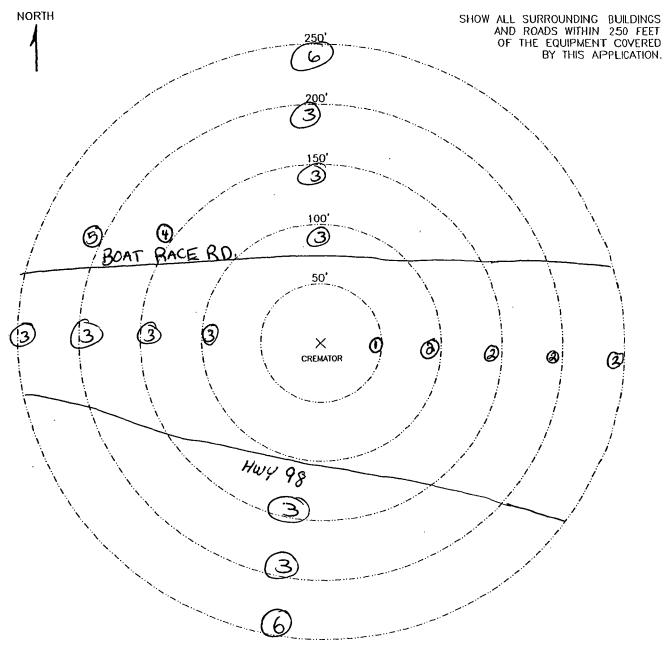
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Design Calculations
If this is an initial registration for a proposed new human crematory unit, provide design calculations to confirm a sufficient volume in the secondary chamber combustion zone to provide for at least a 1.0 second gas residence time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



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.
- SHOW WOODED OR CLEARED AREA BY APPROXIMATE BOUNDARY LINES AND THE WORDS "WOODS," "CLEARED," "CORNFIELD," ETC.

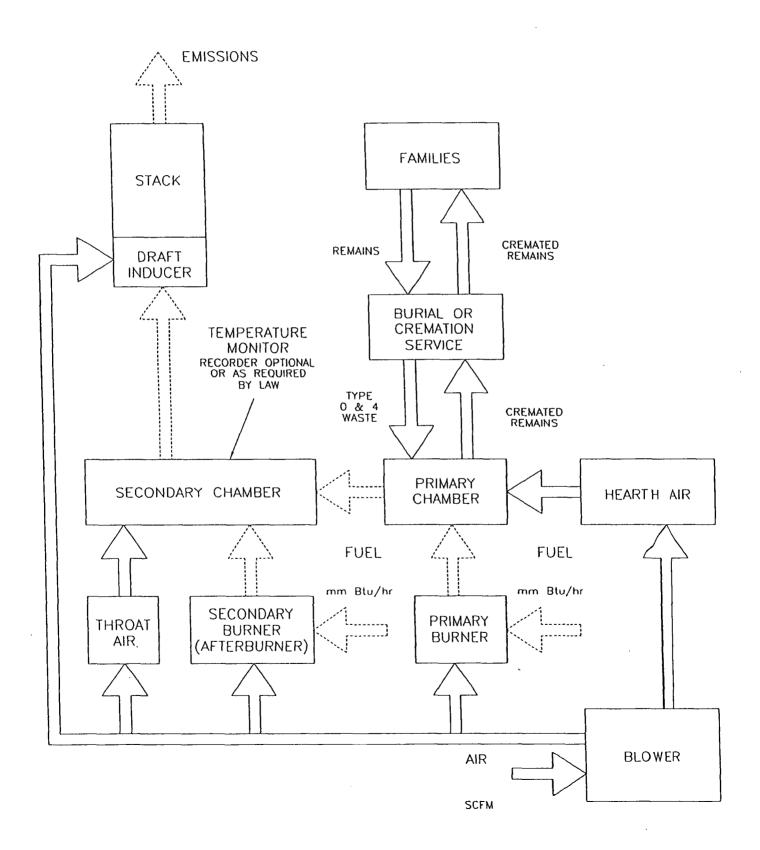
STRUCTURE **DESCRIPTION**

- (1) Small METAL BUILBING
 (2) STORAGE UNITS
 (3) Cleared Area
 (4)

- (4) Block Building (5) Block Building (6) Wooded

- (8) (9)
- (10)

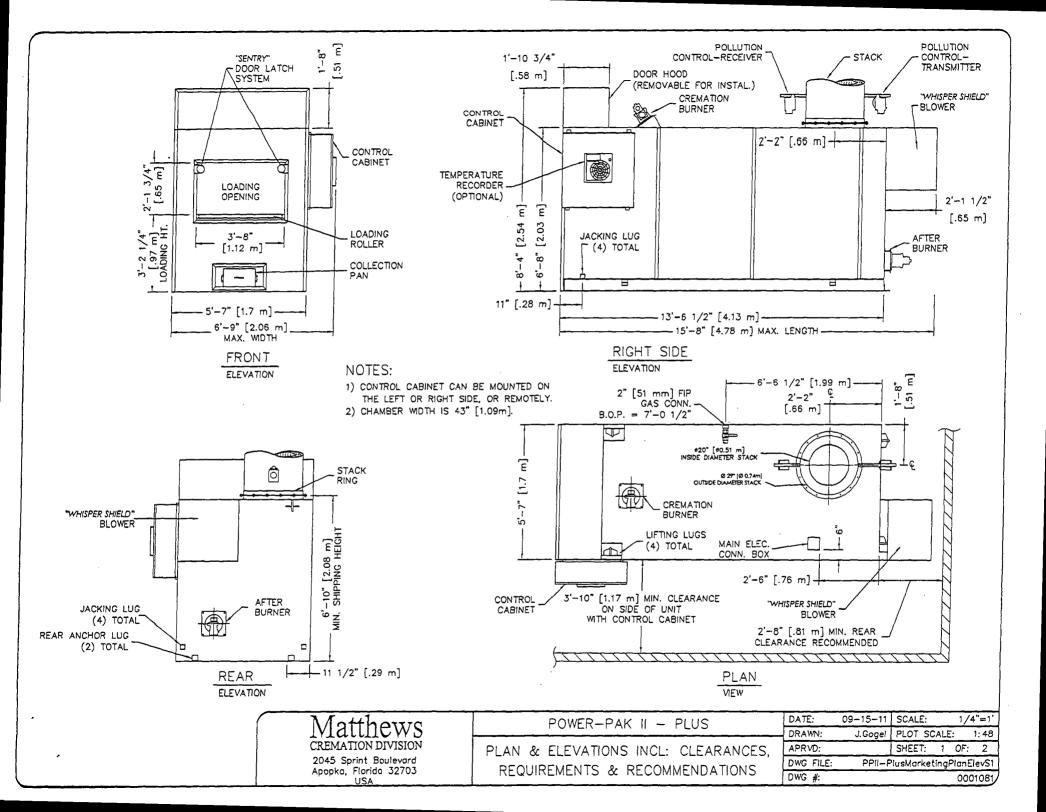
PROCESS FLOW DIAGRAM CREMATOR



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 Running Gas Pressure, Natural 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
	Running Gas Pressure, LP Gas B. Electrical Supply C. Air Supply	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 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			
20.	A. High Gas Pressure	Ontional		
	B. Low Gas Pressure	•		
	C. Blower Air Pressure	•		
	D. Door Position			
	E. OpacityF. Motor Starter Function			
	G. Chamber Temperature			
	H. Motor Overload			
	I. Flame Quality			
	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.		
	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	. Included		
	G. Afterburner (Secondary Burner) Reset			
	H. Cremation Burner Reset	•		
	I. Hearth Air	. Included		
	J. Throat Air Off	. Included		
O.F.	Automatia Timor Eunations			
25		Included		
	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			
	Cremation Burner Prepurge Cool Down			
	J. Cool Down	included		
26	. Exterior Finish			
	A. Primer	2 coats rust inhibiting		
	B. Finish	2 coats textured finish		



CREMATOR CLEARANCES

CREMATOR REQUIREMENTS

STACK INSTALLATION INSTRUCTIONS

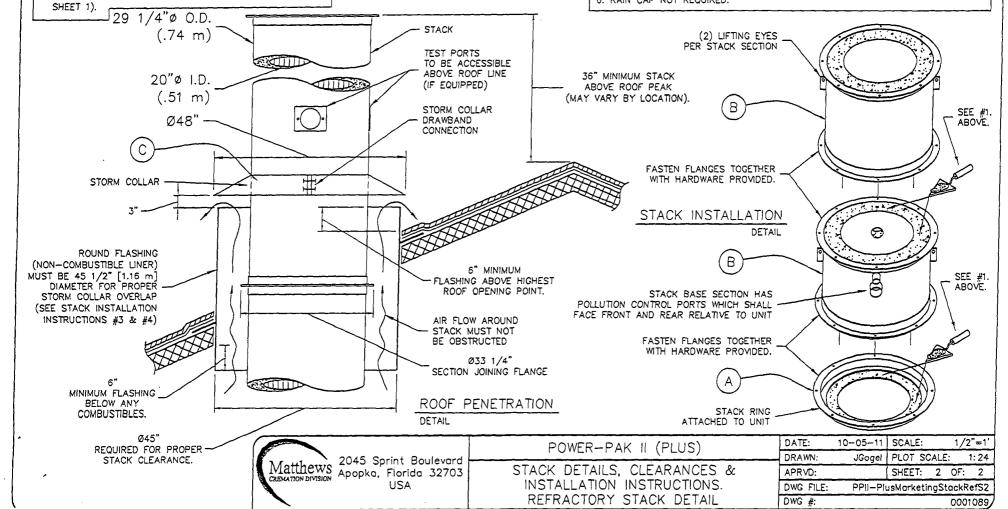
RECOMMENDED MINIMUM

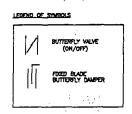
TOP: (2) 2 FEET 6 INCHES [152 mm] [610 mm] 4 FEET [1.22 m] CABINET SIDE: 4 FEET [1.22 m] 6 INCHES [152 mm] OTHER SIDE: 2 FEET [610 mm] [2.74 m] 8 FEET [2.44 m] FRONT: 9 FEET 32 INCHES [812 mm] REAR: 3 FEET [0.91 m] 6 INCHES [152 mm] 6 INCHES [152 mm] STACK:

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

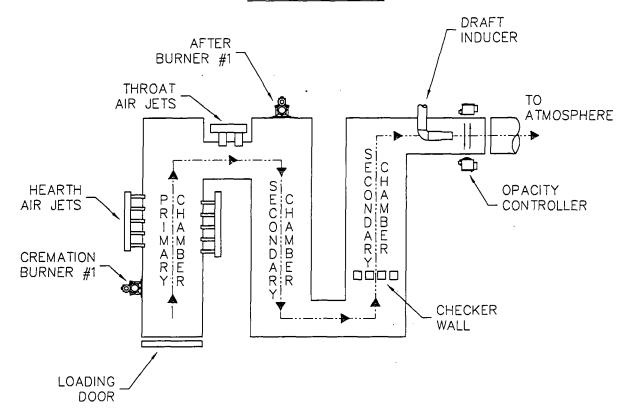
- FUEL: A PRESSURE REGULATOR ADJUSTABLE TO 7" [178 mm] W.C. FOR NATURAL GAS, OR 11" [279 mm] W.C. FOR LP GAS.
- CAPACITY: RANGES FROM 2.0 TO 3.0 MILLION BTU/HR [2.1 TO 3.1 MILLION KILOJOULES/HR] DEPENDING UPON AMOUNT OF BURNERS.
- ELECTRICAL: 230 VOLT, 3¢, (40A BREAKER) AND 115v (10A BREAKER), QR 230 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 © 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.

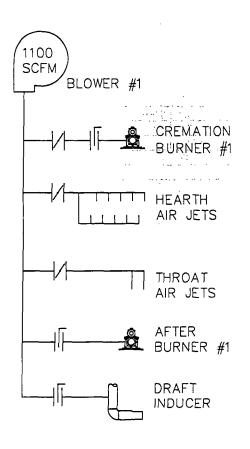




FLOW DIAGRAM



AIR SCHEMATIC



Matthews cremation division Apopka, Florida 32703 USA

POWER PAK II PLUS
FLOW DIAGRAM
& AIR SCHEMATIC

 DATE:
 03-10-12
 SCALE:
 1/4"=1'

 DRAWN:
 MT
 PLOT SCALE:
 1: 48

 APRVD:
 SHEET:
 1
 OF:
 1

 DWG FILE:
 PPII-PlusFlowDiaAirSchem

 DWG #:
 0000523

Calculation Of Emissions

Potential to Emit

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

Total Incenerator Burn Capacity 175 lb/hr of remains (type 4) and associated containers (type 0) Flue gas flow rate = 1175 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								
Sulfer Dioxide (SO ₂)								
175 lb/hr X	2.5 lb/ton X 1 ton 2000 lbs	= 0.219 lb/hr = 0.4095 TPY						
0.21875 lb/hr X 1175 dscfm X	4.54E+05 mg/lb X 1 ppmv 60 min/hr X 0.0283 m ³ /f ³ X 2.61 mg/m ³	= 19.07 ppmv						
Nitrogen Oxide (NOx - as Nitrogen	,							
175 lb/hr X	3 lb/ton X 1 ton 2000 lbs	= 0.2625 lb/hr = 0.4914 TPY						
0.2625 lb/hr X 1175 dscfm X	4.54E+05 mg/lb X 1 ppmv 60 min/hr X 0.028 m³/f³ X 1.88 mg/m³	= 32.11 ppmv						
Hydrocarbons (TOC/VOC - methar	ne)							
175 lb/hr X	3 lb/ton X 1 ton 2000 lbs	= 0.2625 lb/hr = 0.4914 TPY						
0.2625 lb/hr X 1175 dscfm X	4.54E+05 mg/lb X 1 ppmv 60 min/hr X 0.0283 m ³ /f ³ X 0.65 mg/m ³	= 91.90 ppmv						
<u>Lead (Pb)</u> (6.62E-05 lb:	os/cremation)							
175 lb/hr X	0.0000662 lb Pb 100 lb	= 0.0001 lb/hr = 0.0002 TPY						
Particulates (PM & PM ₁₀) (A	Actual Levels lower as shown by test results)							
175 lb/hr X	7 lb/ton X 1 ton 2000 lbs	= 0.6125 lb/hr = 1.1466 TPY						
0.6125 lb/hr X 1175 dscfm X	7.00E+03 gr/lb X 60 min/hr	= 0.06 gr/dscf						
<u>Carbon Monoxide (CO)</u> (Actual Levels lower as shown by test results)								
175 lb/hr X	10 lb/ton X 1 ton 2000 lbs	= 0.875 lb/hr = 1.638 TPY						
0.875 lb/hr X	4.54E+05 mg/lb X 1 ppmv	= 176.53 ppmv						

Notes:

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

60 min/hr X

0.028 m³/f³ X

1.14 mg/m³

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

1175 dscfm X

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.

TU 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		165
MASS OF PRODUCTS OF COMBUSTION FROM CONTAINER			
A. COMBUSTION AIR			
8500BTU/LB x 100BTU/CF OF AIR*	0.075 LB/CF OF AIR	=	6.38 LB/LB BURNI
B. COMBUSTIBLES AND WATER VAPOR	FROM CHART ABOVE	=	0.95 LB/LB BURN
C. TOTAL FLUE PRODUCT MASS PER LB BURNED		=	7.33 LB/LB BURN
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 BURN
B. COMBUSTIBLES AND WATER VAPOR	FROM CHART ABOVE	=	0.95 LB/LB BURNI
C. TOTAL FLUE PRODUCT MASS PER LB BURNED		=	1.70 LB/LB BURNI
SPECIF	CATIONS		
RIMARY BURNER FUEL CONSUMPTION (MMBTU/HR)		0.5	
ECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR)		0.9	
ADDITIONAL SECONDARY AIR SUPPLIED (CFM)		200	
SEC. 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	
MIXING BAFFLES AREA (SQ. FT)		1.36	

^{*}AIR AT STANDARD CONDITIONS

3. TOTAL FLUE PRODUCTS

A .	. MAXIMUM PRIMARY BURNER GAS USAGE					
	500000	BTU/HR	×	4.5E-05 LBS/BTU	=	22.5 LBS/HR
В.	COMBUSTION AI	R FOR PRIMARY BU	RNER	1 x	0.075 LB/CF AIR =	375 LBS/HR
		BTU/CF AIR	UCA 05	Burner		
C.	MAXIMUM SECON	DARY BURNER GAS	USAGE			
	900000	BTU/HR	x	4.5E-05 LBS/BTU	=	41 LBS/HOUR

100 BTU/CF AIR Burner E. PRODUCTS FROM TYPE 0 WASTE (CONTAINER)	LBS/HOUR
100 BTU/CF AIR Burner E. PRODUCTS FROM TYPE 0 WASTE (CONTAINER)	
	LBS/HOUR
7.33 LBS/LB BURNED x 10 LB/HR BURN RATE = 73	LBS/HOUR
7.33 LBS/LB BURNED x 10 LB/HR BURN RATE = /3	LBS/HOUR
	==0,
F. PRODUCTS FROM TYPE 4 WASTE (TISSUE)	
1.70 LBS/LB WASTE x 165 LB/HR BURN RATE = 281	LBS/HOUR
G. ADDITIONAL SECONDARY CHAMBER COMBUSTION AIR (THROAT AIR)	
12000 CE/HR* × 0.075 LR/CE AIR = 900	LBS/HOUR
12000 CF/HR* x 0.075 LB/CF AIR = 900	LBS/HOUR
H. TOTAL FLUE PRODUCTS = 2367	LBS/HOUR
2. VELOCITY AND TIME CALCULATIONS	
A. SCFM CALCULATION (PRODUCTS ASSUMED TO HAVE DENSITY CLOSE TO AIR)	
2367 LBS/HR × 13.35 STD. CU. FT/LB = 527 60 MIN/HR	SCFM
B. TOTAL PRODUCTS ACFM @ 1800 °F	
<u>2260 *RANKINE</u> x 526.6 CFM = 2246 530 *RANKINE	ACFM
C. RETENTION TIME	
96 CU. FT x 60 SECONDS = 2.57	SECONDS
2246 ACFM 1 MINUTE	
D. VELOCITY IN FLAME PORT	
2246 ACFM x 1 MINUTE = 12.7	FEET/SECOND
2.95 SQ. FT 60 SECONDS	
E. VELOCITY AT MIXING BAFFLES	
2246 ACFM x 1 MINUTE = 27.5	FEET/SECOND
1.36 SQ. FT 60 SECONDS	
F. VELOCITY IN SECONDARY CHAMBER	
2246 ACFM x 1 MINUTE = 13.6	FEET/SECOND
2.76 SQ. FT 60 SECONDS	

