FEA RECEIPT 497400 JUN 10 2009

HUMAN CREMATORY AIR GENERAL PERMIT REGISTRATION FORM

RECEIVEL SUN 15

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(4)(0), F.A.C. (\$100 as of the effective date of this form)

62-4.050(4)(o), F.A.C. (\$100 as of the effective date of this form) 0330285-00/
Registration Type 0330463 007
Check one:
 INITIAL REGISTRATION - Notification of intent to: ☐ Construct and operate a proposed new facility. ☐ 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).
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):
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.)
Faith Chapel 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 registration form must be completed for each.)
Faith Chapel Funeral Home NORth Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)
Street Address: 1000 Hwy. 295
City: County: Zip Code: Cantonment Escambia 32533 Facility Start-Up Date (Estimated start-up date of proposed new facility.) (N/A for existing facility)
Facility Start-Up Date (Estimated start-up date of proposed new facility.) (N/A for existing facility)
August/September 2009

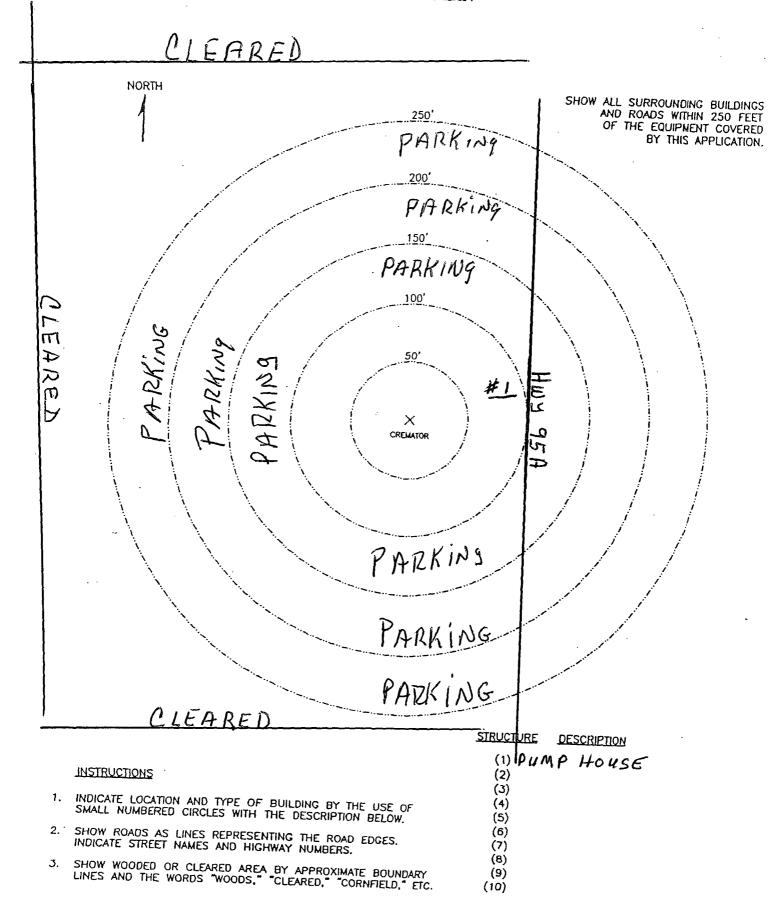
DEP Form No. 62-210.920(2)(c) Effective: January 10, 2007

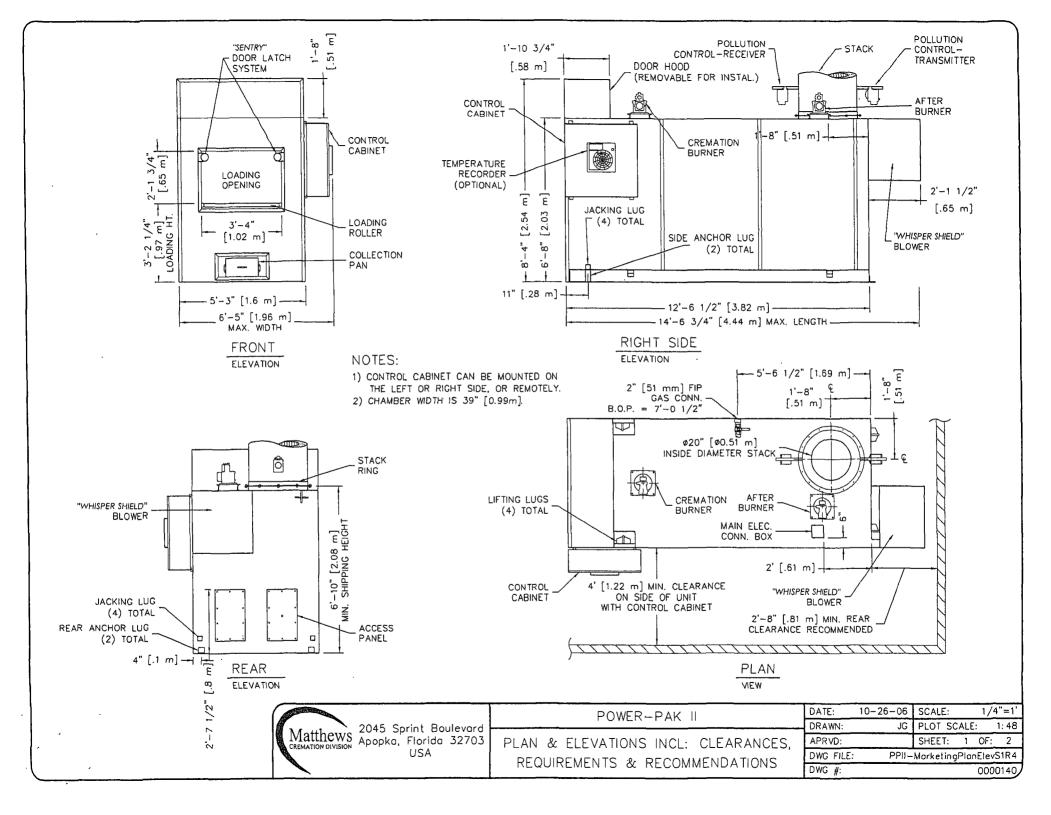
Owner/Authorized Representative			
Name and Position Title (Person who,	by signing this form held	ow certifies th	at the facility is eligible to use this
air general permit.)	by signing and form ook	<i>5</i> 11, COI 111105 111	at the racing is engine to and and
Print Name and Title:		,	
Charles D.	Dillow Vice P	resident/	Operations Mgr.
Owner/Authorized Representative Mai	iling Address	resident /	breations right
Organization/Firm: Faith Chape	I Funeral Home		
Street Address: IAA Daniel DI	Line	•	
Street Address: 100 Beverly Pl	County: _		Zip Code:
City: Pensacola Owner/Authorized Representative Tele	Esco	emhia	32505
Owner/Authorized Representative Tele			
Telephone: 850-432-6146		Fax:	
Cell phone (optional):			
850-232-	-6834	850	- 432-6337
		•	
Facility Contact (If different from O			
Name and Position Title (Plant manage	er or person to be contact	ted regarding of	lay-to-day operations at the facility.)
Print Name and Title:			
			
Facility Contact Mailing Address			
Organization/Firm:			
Street Address:	•		7: 0 I
City:	County:		Zip Code:
Facility Contact Telephone Numbers			
Telephone:	7	Fax:	
Cell phone (optional):	,	rax.	
con phone (opnomi).			
Owner/Authorized Representative S	tatement		
This statement must be signed and date		bove as owner	or authorized representative
I, the undersigned, am the owner of	•		•
addressed in this Air General Peri			
belief formed after reasonable ing			
use of this air general permit and			
and complete. Further, I agree to			
as to comply with all applicable st			
the State of Florida and rules of th			
1	spanimon of Birth on		with the one
I will promptly notify the Departm	ent of any changes to the	information c	ontained in this registration
form.	and of any anamages to me		
	000		
Charles 41.	alland	ا (ا ا	VE8, 2009
Signature		Date	, , , , , , , , , , , , , , , , , , , ,

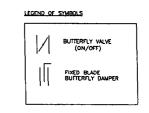
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Design Calculations
If this is an initial registration for a proposed new human crematory unit, provide design calculations to confirm a sufficient volume in the secondary chamber combustion zone to provide for at least a 1.0 second gas residence time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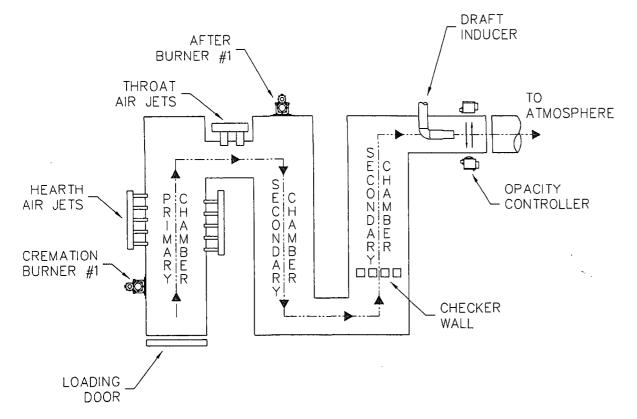
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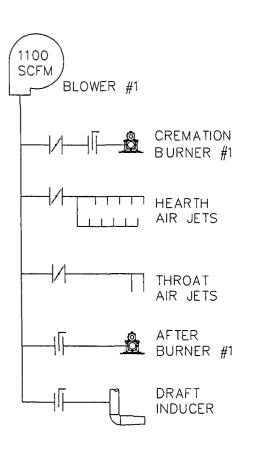








AIR SCHEMATIC

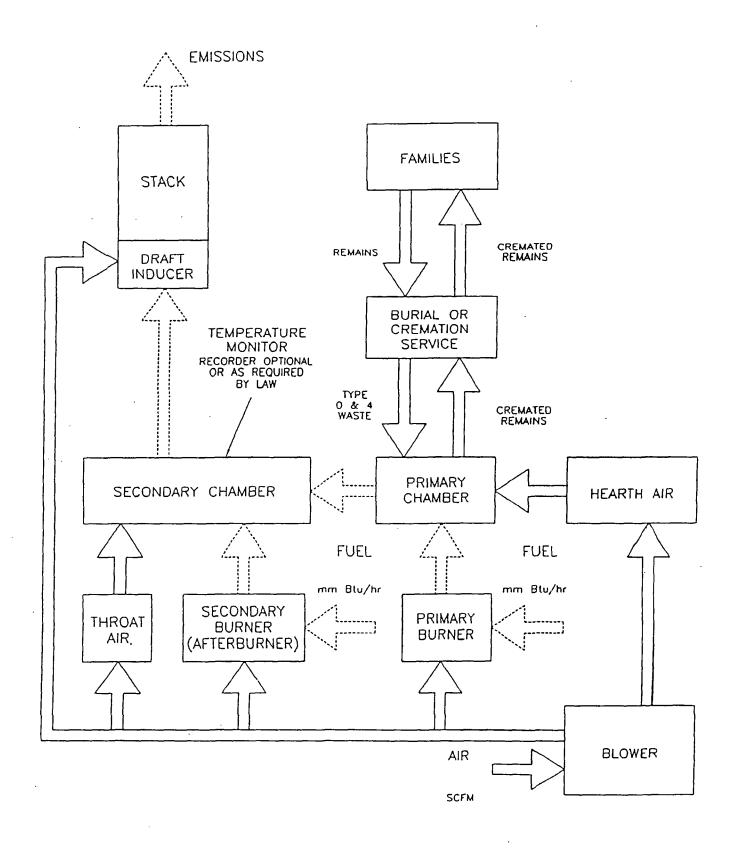


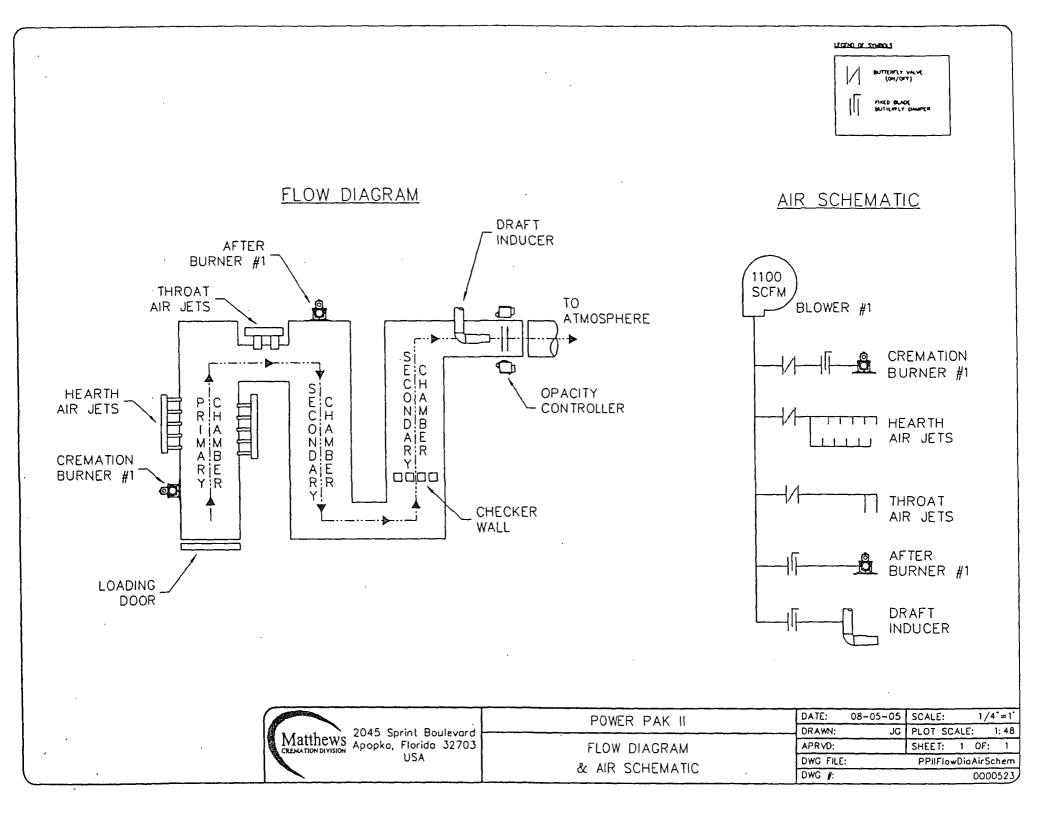
	FLOW	DIAGRAM
&	AIR	SCHEMATIC

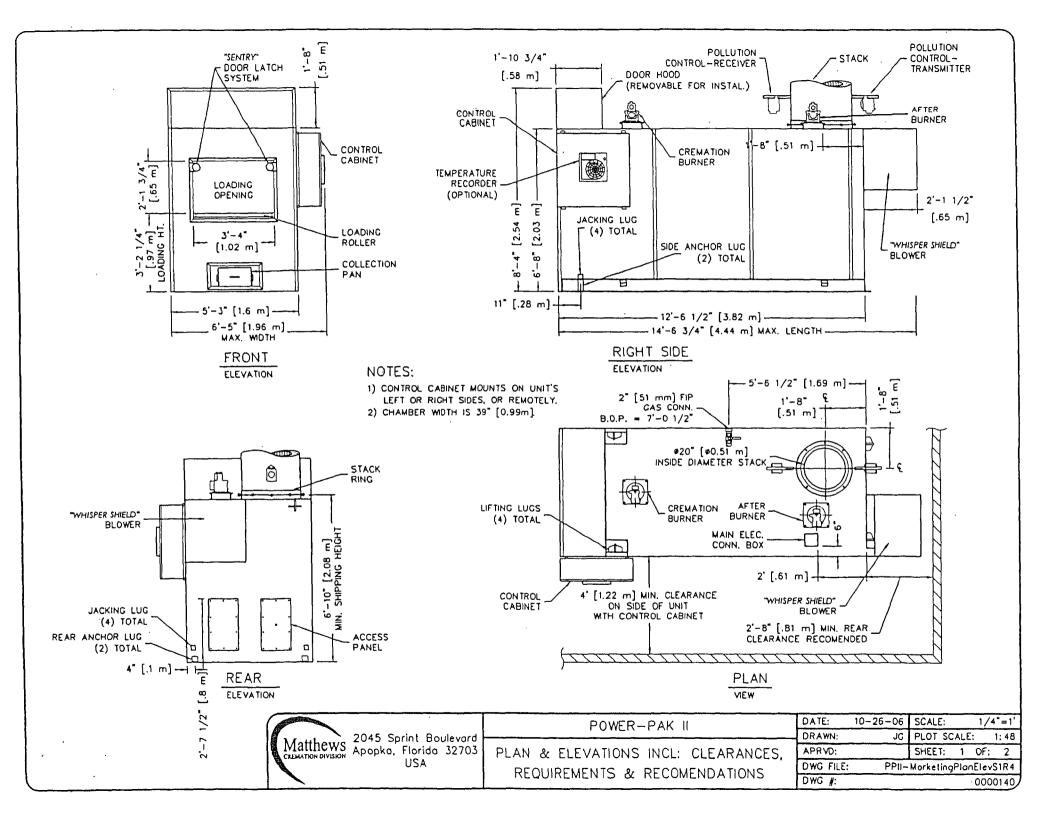
POWER PAK II.

DATE: 08-05-05	SCALE: 1/4"=1'
 DRAWN: JG	PLOT SCALE: 1:48
APRVD:	SHEET: 1 OF: 1
DWG FILE:	PPIIFlowDiaAirSchem
DWG #:	0000523

PROCESS FLOW DIAGRAM CREMATOR







RECOMMENDED MINIMUM

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

- 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,

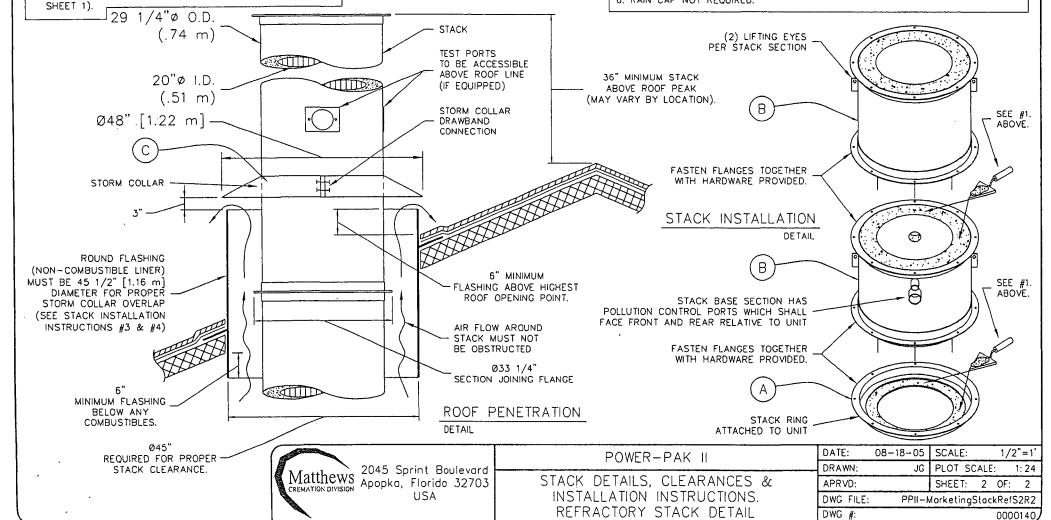
FUEL: A PRESSURE REGULATOR ADJUSTABLE
TO 7" [178 mm] W.C. FOR NATURAL GAS,
OR 11" [279 mm] W.C. FOR LP GAS.

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

ELECTRICAL: 230 VOLT, 30, (40A BREAKER) AND 115v (10A BREAKER), <u>OR</u> 230 VOLT, 10, (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 FLANCES & 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.



SPECIFICATIONS- Model Power-Pak II

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' - 6½" (4.43 m) . 6' -5" (1.96 m) . 8' - 4" (2.54 m)
3.	Weight	. 24,000 lbs. (11,000 kg)
4.	Utility/Air Requirements A. Gross Gas Input, Natural or LP Gas	2,500,000 BTU/hr. (2,600,000 kJ/h) if equipped with preheat burner 7 inches (180 mm) water column or greater 11 inches (280 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 kg/h)
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 A. Inner Wall	3/8" (10 mm) plate 3/16" (5 mm) plate 12 gauge (3 mm) plate 12 gauge (3 mm) plate
	B. Outer Wall	•
10. [Oraft 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 1" (25 mm) insulating block
12.	Primary Chamber Wall Construction A. Outer Casing Wall	2" (51 mm) air compartment

SPECIFICATIONS- Model Power-Pak II

		•
	D. Outer Refractory Wall E. Inner Refractory Wall	
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" (150 mm) insulating block
14.	Refractory Temperature Ratings A. Standard Firebrick B. Insulating Firebrick C. Castable Refractory (Hearth) D. Castable Refractory E. Insulating Block F. Bonding Mortar	. 2,600° F. (1430° C) . 2,550° F. (1370° C) . 2,550° F. (1370° C) . 1,900° F. (1040° 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	Included Included
17.	Operating Temperatures A. Primary Chamber B. Secondary Chamber	
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.
	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 Optional Included
22	Rurner Description	The pozzle mix burners used on this crem

22. Burner Description...... The nozzle mix burners used on this cremation

equipment are industrial quality and designed

SPECIFICATIONS- Model Power-Pak II

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	. Included
	D. Afterburner On (Secondary Burner)	. Included
	E. Cremation Burner On	
	F. Low Fire Cremation Burner On	
	G. Afterburner (Secondary Burner) Reset	
	H. Cremation Burner Reset	
	I. Hearth Air	Included
	J. Throat Air Off	Included
25.	Automatic Timer Functions	
	A. Master Cycle	
	B. Afterburner (Secondary Burner)	Included
	C. Cremation Burner	
	D. Low Fire Cremation Burner	
	E. Hearth Air	Included
•	F. Throat Air	Included
	G. Pollution Monitoring	Included
	H. Afterburner (Secondary Burner) Prepurge	
	I. Cremation Burner Prepurge	Included
-	J. Cool Down	Included
26.	Exterior Finish	O
	A. Primer	-
	B. Finish	2 coats textured finish
27.	Start-Up and Training	• • •
		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
۷٠.	Entri Orini Cirtai Gubililitais	environmental permits. Engineering calculations,
		technical data, existing stack test results and
		equipment blueprints provided.
		equipment biueprints provided.

CREMATOR MASS BALANCE

Matthews Cremation Division

(formerly Industrial Equipment & Engineering Co.) Model IE43-PPII (Power-Pak II) Ultra

Crematory Incinerator, Fired on Natural Gas

18-Oct-08

THESE CALCULATIONS HAVE BEEN PREPARED TO EVALUATE THE COMBUSTION PROCESS IN THE POWER-PAKII CREMATORY INCINERATOR

Firing Rate

150 lb/hr = 100 % of 150 lbs/hr Rated Capacity)

Excess Air

65 %

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)	5.0	145.0	

SPECIFICATIONS					
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR)	0.45	0.7 MMBTU /HR UL RATING			
PRIMARY CHAMBER VOLUME (CU.FT)	64				
HEARTH AREA (SQ.FT)	26.4				
SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR)	1.2				
ADDITIONAL COMBUSTION AIR SUPPLIED					
THROAT AIR (SCFM)	200	3 "w.c. @ test tap			
HEARTH AIR (SCFM)	100	4 " w.c. @ test tap			
SEC. CHAMBER OPERATING TEMPERATURE (°F)	1800				
SECONDARY CHAMBER VOLUME (CU. FT)	74				
SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT)	2.7				
FLAME PORT AREA (SQ. FT)	2.8				
MIXING BAFFLES AREA (SQ. FT)	1.4				

1. TOTAL FLUE PRODUCTS

A. PRIMARY BURNER NATURAL GAS USAGE

450000 BTU/HR 1000 BTU/CF

450 CFH 8 CFM

B. COMBUSTION AIR FOR PRIMARY BURNER

$$\frac{450 \text{ CF}}{\text{HR}}$$
 × $\frac{2 \text{ CF O2}}{\text{CF}}$ × $\frac{1 \text{ CF AIR}}{0.21 \text{ CF O2}}$ ≈ $\frac{4327 \text{ CFH}}{72 \text{ CFM}}$ (Stoichiometric)
 $\frac{1658.5}{100 \text{ CFM}}$ × $\frac{1 \text{ CF AIR}}{100 \text{ CFM}}$ ≈ $\frac{1 \text{ CF AIR}}{100 \text{ CFM}}$ ≈ $\frac{1 \text{ CF AIR}}{100 \text{ CFM}}$ = $\frac{100 \text{ CFM}}{100 \text{ CFM}}$ (Actual)

C. SECONDARY BURNER NATURAL GAS USAGE

1200000 BTU/HR 1200 CFH 1000 BTU/CF 20 CFM

D. COMBUSTION AIR FOR SECONDARY BURNER

1200 0	CF	Х	2 CF O2	x	1 CF AIR	= 11538 CFH
F	HR		CF	-	0.21 CF O2	= 192 CFM (Stoichiometric)
1658.5	x	5.3 SI	×	0.97	√ 2.25	= 12790 CFH = 213 CFM (Actual)

E. PRODUCTS FROM TYPE 0 WASTE (CONTAINER)	
=	= 5 LBS/HOUR = 63 CFH = 1 CFM
F. PRODUCTS FROM TYPE 4 WASTE (TISSUE)	
=	= 138 LBS/HOUR = 1833 CFH = 31 CFM
G. ADDITIONAL COMBUSTION AIR (HEARTH & THROAT AIR)	
6000 CFH =	= 200 CFM = 100 CFM = 150 CFM/CREMATION
H. TOTAL FLUE PRODUCTS	= 523 SCFM
2. VELOCITY AND TIME CALCULATIONS	
A. TOTAL PRODUCTS ACFM @ 1800 °F	
2260 °RANKINE x 522.8 CFM = 530 °RANKINE	= 2229 ACFM
B. RETENTION TIME	
74 CU. FT x 60 SECONDS = 2229 ACFM 1 MINUTE	= 2.0 SECONDS
C. VELOCITY IN FLAME PORT	
2229 ACFM x 1 MINUTE = 60 SECONDS	≈ 13.3 FEET/SECOND
D. VELOCITY AT MIXING BAFFLES	
2229 ACFM x 1 MINUTE = 1.4 SQ. FT 60 SECONDS	26.5 FEET/SECOND
E. VELOCITY IN SECONDARY CHAMBER	
2229 ACFM x 1 MINUTE = 2.7 SQ. FT 60 SECONDS	= 13.8 FEET/SECOND
STACK CONDITIONS	
STACK EXIT DIAMETER (INCHES) STACK EXIT AREA (SQ. FT) FLUE GAS TEMPERATURE (°F) (Secondary chamber exhaust) INDUCING AIR TEMPERATURE (°F) INDUCING AIR QUANTITY (CFH) 15000	
5. STACK CALCULATIONS	
A. STACK GAS TEMPERATURE	
523 (T - 2260) = 250 (T - 530) =	1240 °FAHRENHEIT
B. STACK GAS VOLUME (STACK CONDITIONS)	
(523 + 250) SCFM x 1700 = 60 SEC/M 530 =	2479 ACFM

C. STACK EXIT VELOCITY

41 ACFS 2.18 SQ. FT			= 1137 FEET PER MINUTE
<u> </u>	0.4		
D. PERCENT WATER VAPO	R (Volume Con	version)	
0.1 lb/lb waste Type 0	х -	29 Mol Wt. Air 18 Mol. Wt. Water	= 0.16 lb/lb waste Type 0
0.85 lb/lb waste Type 4	х _	29 Mol Wt. Air 18 Mol. Wt. Water	= 1.36 lb/lb waste Type 4
0.16 lb/lb waste Type 0	х	5 LB/HR BURN RATE	= 0.8 lb/hr
1.36 lb/lb waste Type 4	X	145.0 LB/HR BURN RATE	= 198 lb/hr
2.25 lb/lb fuel (NG)	X	69 LB/HR BURN RATE	= 156 lb/hr
			= 355 lb/hr total = 116 SCFM = 15 % Water Vapor (Theoretical)
E. PERCENT 02 & CO2 @ C	REMATOR TEST POR	T (Theoretical)	
1650 CFH CH4		5786 CFH O2 27819 CFH AIR 1650 CFH CO2 3300 CFH H2O	
15 LB AIR 10000 BTU	8500 BTU LB	0.85 LB 5.0 LB LB HR	54 LB/HR AIR - Typ 721 SCFH
15 LB AIR 10000 BTU	1000 BTU LB	0.1 LB 145.0 LB LB HR	22 LB/HR AIR - Typ 289 SCFH
		Stoichiometric Air =	16876 SCFH 281 SCFM
	I	Excess Air =	10942 SCFH 182 SCFM
Total Flue Produc	cts		523 CFM - 116 CFM MOISTURE 407 CFM GAS
CO2	2802 CFH	= 47 SCFM	= 11 % CO2
O2	2276 CFH	= 38 SCFM	= 9 % O2
F. PERCENT 02 & CO2 @ 51	TACK TEST PORT (The	eoretical)	
Total Flue Produc	ts (adding inducing	g air to total flue products)	773 CFM - 116 CFM MOISTURE 657 CFM GAS
CO2	2802 CFH	= 47 SCFM	= 7 % CO2
02	5396 CFH	= 89.9 SCFM	= 14 % O2

EMISSIONS TESTING REPORT

PERMIT NO. 0950126-005-AG

IE43-PPII, POWER-PAK II CREMATOR

PREPARED FOR:

BALDWIN FAIRCHILD

ORLANDO, FLORIDA MAY 5, 2005

PREPARED BY:

ATC



AIR TESTING & CONSULTING, INC.

333 FALKENBURG ROAD, SUITE B-214 TAMPA, FLORIDA 33619

ATC



AIR TESTING & CONSULTING, INC.

333 FALKENBURG ROAD, SUITE B-214 TAMPA, FLORIDA 33619

To the best of my knowledge, all field and analytical procedures comply with Florida Department of Environmental Protection requirements and all test data and plant operating data are true and correct.

Kenneth E. Given, P.E.

Date

1.0 INTRODUCTION

On May 5, 2005, Air Testing & Consulting, Inc., conducted the following tests on Baldwin Fairchild's Human Crematory Incinerator located at 301 N. Ivanhoe Blvd. in Orlando, Florida:

- (1) Particulate Emission (EPA Methods 1 5)
- (2) Carbon Monoxide (EPA Method 10)
- (3) Visible Emissions (EPA Method 9)
- (4) Oxygen (EPA Method 3A)

These tests were performed at the request of Mathews Cremation Division to prove compliance on the Power Pak II crematory incinerator. Orange County, Environmental Protection Division, representatives, Gregory Bryant, Ilka Bundy and John Casper audited the test.

2.0 SUMMARY OF RESULTS

The results of the emission testing are presented in the Test Summary. The Particulate emissions averaged 0.0549 grains per dry standard cubic foot (gr/dscf) and CO emissions averaged 2.2 parts per million (ppmv), each corrected to 7% O₂. Opacity, highest six-minute average, on the stack, was 0%.

3.0 SUMMARY OF TEST DATA

PLANT : BALDWIN

UNIT : POWER-PACK II

RUN NUMBERS :1, 2, 3

TEST DATE : 5/5/05	#1	#2	#3	AVERAGES
DATE	5/5/05	5/5/05	5/5/05	
START TIME	10:32	13:05	15:27	<u>.</u>
END TIME	11:50	14:09	16:29	
STACK DIAMETER (INCHES)	19.5	19.5	19.5	
NOZZLE DIAMETER (INCHES)	0.550	0.550	0.550	
TEST TIME (MINUTES)	60	60	60	
NUMBER OF TEST POINTS PER RUN	24	24	24	
STACK GAS TEMPERATURE (°F)	850.0	991.8	1128	989.9
STACK GAS MOISTURE (%)	12.51	9.76	6.56	
STACK GAS MOLECULAR WEIGHT	28.50	28.83	29.21	
STACK GAS VOLUME SAMPLED (CUBIC FEET)	34.375	36.840	40.110	37.108
VOLUME SAMPLED (SCF @ 68°F)	34.585	37.020	40.270	37.292
STACK GAS VELOCITY (FEET PER SECOND)	18.14	17.30	19.75	18.39
STACK GAS FLOW RATE (ACFM)	2257.0	2152.2	2457.7	2288.9
STACK GAS FLOW RATE (DSCFM @ 68°F)	801.7	711.5	769.2	760.8
OXYGEN, %	16.0	14.0	14.5	
PARTICULATE CONC (GR/DSCF) @7% O2	0.0359	0.1122	0.0165	0.0549
PARTICULATE MASS RATE (LBS/HOUR)	0.0871	0.3396	0.0500	0.1589
CO CONC @ 7% O ₂ , ppmv	1.42	2.01	3.26	2.23
CO MASS RATE (LBS/HOUR)	0.00175	0.00310	0.00503	0.0033
ISOKINETIC SAMPLING RATE, %I	90.4	109.0	109.7	
FIELD DATA AND SAMPLES UNDER THE CONTROL OF:		TIM CAPELL	<u>E</u>	
LABORATORY ANALYSIS UNDER THE CONTROL OF:		ATC		