

**ANIMAL CREMATORY
AIR GENERAL PERMIT REGISTRATION FORM**

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:

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 transitioning 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.

1150172-001

RECEIVED
AUG 22 2012
DIVISION OF AIR
RESOURCE MANAGEMENT

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.)

Venice Memorial Gardens, 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.)

Venice Memorial Gardens, Inc.

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)

Street Address: 1950 Center Road

City: Venice County: Sarasota

Zip Code: 34285

Facility Start-Up Date (Estimated start-up date of proposed new facility.) (N/A for existing facilities)

10/1/12

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: <u>John Williams Vice President</u>		
Owner/Authorized Representative Mailing Address		
Organization/Firm:	<u>Venice Memorial Gardens</u>	
Street Address:	<u>1950 Center Road</u>	
City:	County:	Zip Code:
<u>Venice</u>	<u>Sarasota</u>	<u>34285</u>
Owner/Authorized Representative Telephone Numbers		
Telephone:	Fax:	
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: <u>Same</u>		
Facility Contact Mailing Address		
Organization/Firm:		
Street Address:		
City:	County:	Zip Code:
Facility Contact Telephone Numbers		
Telephone:	Fax:	
Cell phone (optional):		

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.

Signature: _____ Date: 8/4/12

Design Calculations

If this is an initial registration for a proposed new animal 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 animal 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.

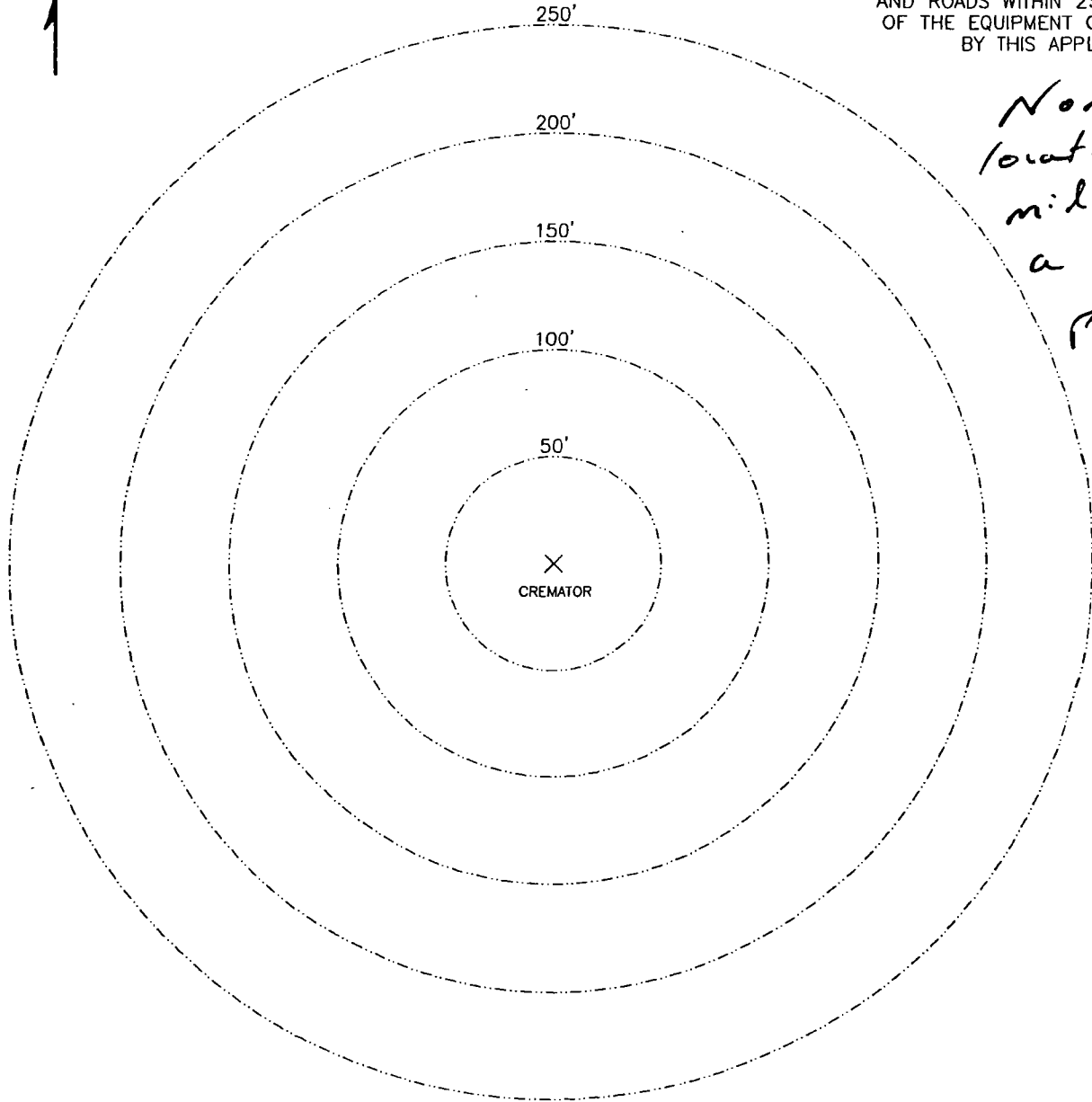
SEE ATTACHED PROCESS FLOW DIAGRAM

PLOT PLAN

NORTH



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



*None -
located in
middle of
a 65 acre
parcel.*

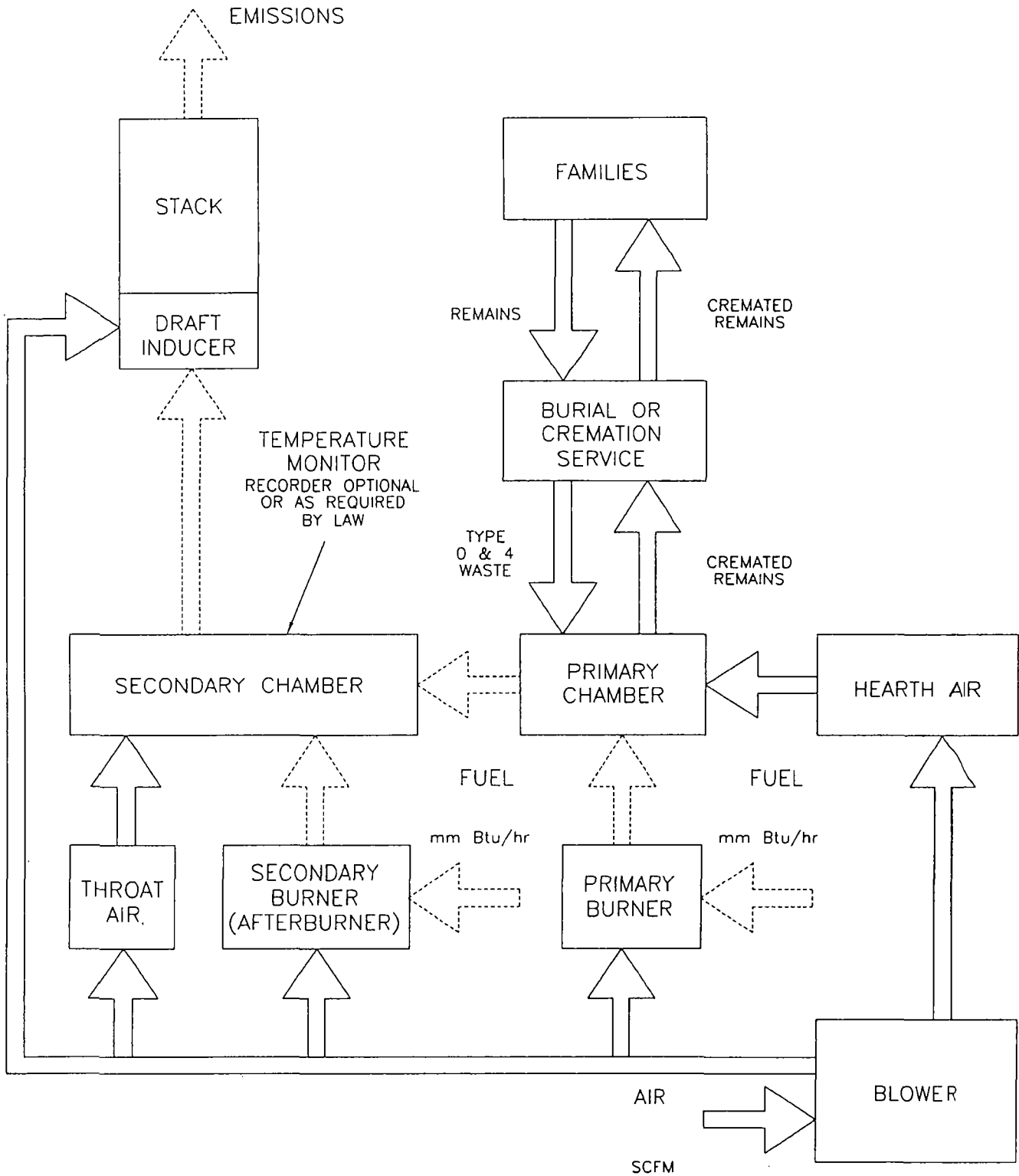
INSTRUCTIONS

1. INDICATE LOCATION AND TYPE OF BUILDING BY THE USE OF SMALL NUMBERED CIRCLES WITH THE DESCRIPTION BELOW.
2. 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.

STRUCTURE DESCRIPTION

- (1)
- (2)
- (3)
- (4)
- (5)
- (6)
- (7)
- (8)
- (9)
- (10)

PROCESS FLOW DIAGRAM CREMATOR



SPECIFICATIONS- Model IEB Series 16

1. Equipment Type..... Model IEB Series 16
 - A. Model No. IE43-IEB 16
 - B. Underwriters Laboratories Listing and File No. .. MH14647

2. Dimensions
 - A. Footprint 8' – 8 ½" x 6' -8" (2.65 m x 2.03 m)
 - B. Maximum Length 10' – 10" (3.30 m)
 - C. Maximum Width 6' -5" (1.96 m)
 - D. Maximum Height 8' - 4" (2.54 m)
 - E. Chamber Loading Opening 25 ¾" H x 39 ½" W (654 mm x 1.00 m)

3. Weight 18,000 lbs. (8,165 kg)

4. Utility/Air Requirements
 - A. Gross Gas Input, Natural or LP Gas..... 2,000,000 BTU/hr. (2,110,112 kJ/h)
 Running Gas Pressure, Natural Gas 7 inches (177.8 mm) water column or greater
 Running Gas Pressure, LP Gas 11 inches (279.4 mm) water column or greater
 - B. Electrical Supply..... 230 volt, 3Ø or 1Ø, and 115 volt, 50/60 hz (other available)
 - C. Air Supply..... 2,500 cfm (70.8 standard m³/min)

5. Incineration Capacity 100 lbs./hr. (45.4 kg/h)

6. Typical Loading Capacity of Waste Types..... 300 lbs. (136 kg)

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

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

9. Stack Construction
 - A. Inner Wall..... 3" (76 mm) insulating firebrick or castable
 - B. Outer Wall..... 12 gauge (3 mm) sheet, 304 s.s., welded seams (unlined stack available)

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

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

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

SPECIFICATIONS- Model IEB Series 16

- E. Inner Refractory Wall 4½" (114 mm) firebrick
- 13. Secondary Chamber Wall Construction
 - A. Outer Casing Wall 12 gauge (3 mm) sheet
 - B. Inner Frame/Air Compartment..... 2" (51 mm) air compartment
 - C. Inner Casing Wall..... 12 gauge (3 mm) sheet
 - D. Outer Refractory Wall..... 6" (152 mm) insulating block
 - E. Inner Refractory Wall 4½" (114 mm) firebrick
- 14. Refractory Temperature Ratings
 - A. Standard Firebrick 3,100° F. (1704° C)
 - B. Insulating Firebrick 2,600° F. (1427° C)
 - C. Castable Refractory (Hearth)..... 2,550° F. (1399° C)
 - D. Castable Refractory 2,550° F. (1399° C)
 - E. Insulating Block 1,900° F. (1038° C)
 - F. Bonding Mortar 3,200° F. (1760° C)
- 15. Chamber Volumes (not including external flues, stacks or chimneys)
 - A. Primary Chamber 33 cubic feet (0.93 m³)
 - B. Secondary Chamber 52 cubic feet (1.47 m³)
- 16. Emission Control Features
 - A. Secondary Chamber with Afterburner Included
 - B. Opacity Monitor and Controller with Visual and Audible Alarms Included
 - C. Auxiliary Air Control System Included
 - D. Microprocessor Temperature Control System Included
- 17. Operating Temperatures
 - A. Primary Chamber 32° F. - 1,800° F. (0° C - 982° C)
 - B. Secondary Chamber 1,400° F. - 1,800° F. (760° C - 982° C) as required
- 18. Secondary Chamber Retention Time > 1 second
- 19. Ash Removal Door functions as a heat shield. Sweep out beneath front door into hopper that fills collection pan.
- 20. Safety Interlocks
 - A. High Gas Pressure Optional
 - B. Low Gas Pressure..... Optional
 - C. Blower Air Pressure Included
 - D. Door Position Included
 - E. Opacity..... Included
 - F. Motor Starter Function..... Included
 - G. Chamber Temperature Included
 - H. Motor Overload Included
 - I. Flame Quality Included
 - J. Burner Safe Start Included
- 22. Burner Description The nozzle mix burners used on this cremation equipment are industrial quality and designed for incinerator use.

SPECIFICATIONS- Model IEB Series 16

- 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.

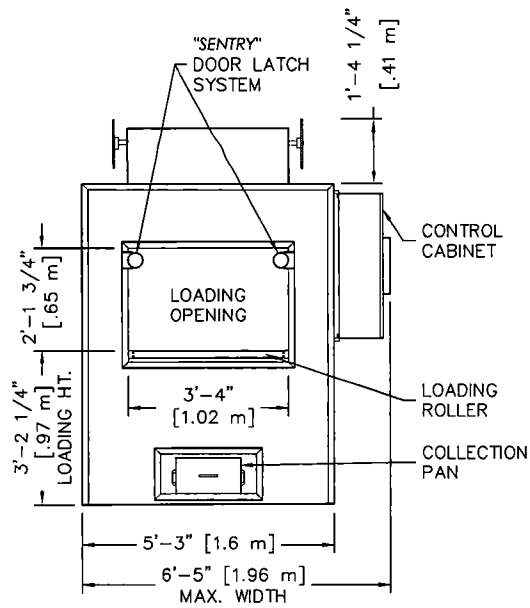
- 24. Operating Panel Indicating Lights
 - A. Safe Run Included
 - B. Door Closed Included
 - C. Pollution Alarm Included
 - D. Afterburner On (Secondary Burner)..... Included
 - E. Cremation Burner On Included
 - F. Low Fire Cremation Burner On..... Included
 - G. Afterburner (Secondary Burner) Reset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

- 25. Automatic Timer Functions
 - A. Master Cycle Included
 - B. Afterburner (Secondary Burner) Included
 - C. Cremation Burner Included
 - D. Low Fire Cremation Burner Included
 - E. Hearth Air Included
 - F. Throat Air Included
 - G. Pollution Monitoring..... Included
 - H. Afterburner (Secondary Burner) Prepurge..... Included
 - I. Cremation Burner Prepurge Included
 - J. Cool Down Included

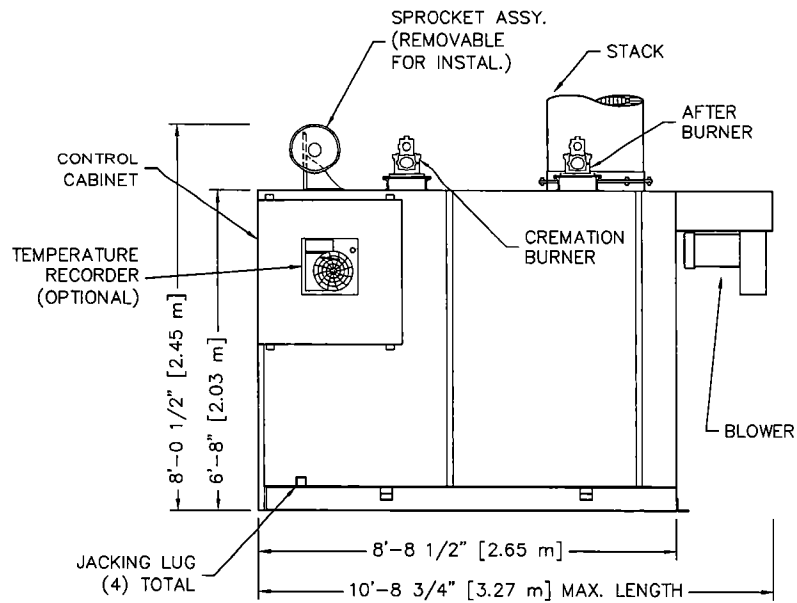
- 26. Exterior Finish
 - A. Primer 2 coats rust inhibiting
 - B. Finish 2 coats textured finish

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

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



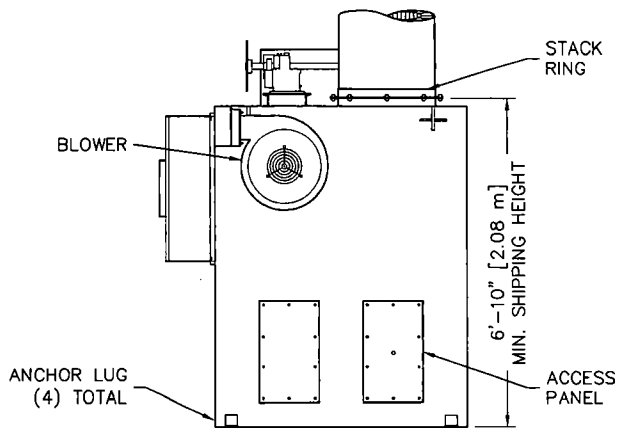
FRONT
ELEVATION



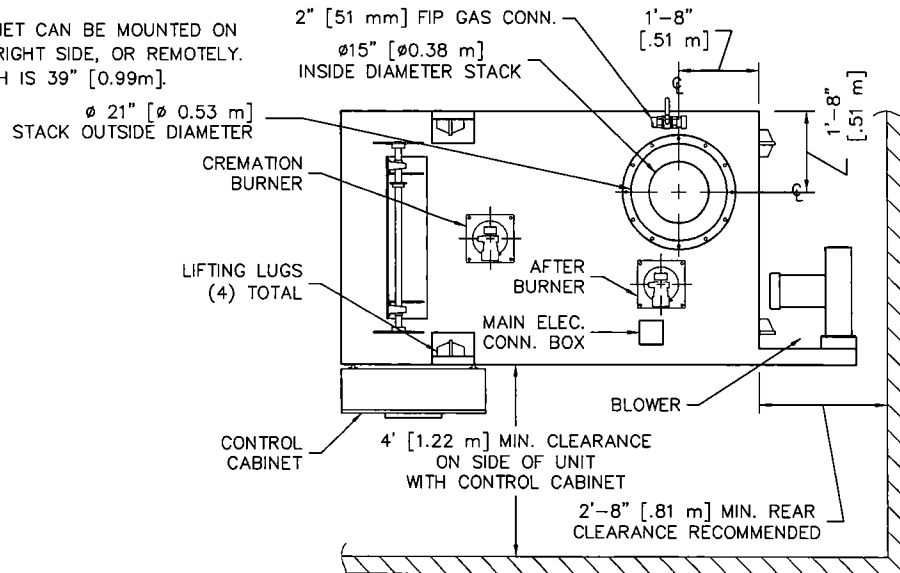
RIGHT SIDE
ELEVATION

NOTES:

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



REAR
ELEVATION



PLAN
VIEW



2045 Sprint Boulevard
Apopka, Florida 32703
USA

IEB SERIES 16

PLAN & ELEVATIONS INCL: CLEARANCES,
REQUIREMENTS & RECOMMENDATIONS

DATE:	10-26-06	SCALE:	1/4"=1'
DRAWN:	JG	PLOT SCALE:	1:48
APRVD:		SHEET:	1 OF: 1
DWG FILE:	IEB-16-MarketingPlanElevS1R2		
DWG #:	0000135		

CREMATOR CLEARANCES

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]
FRONT:	9 FEET [2.74 m]	8 FEET [2.44 m]
REAR:	3 FEET [0.91 m]	32 INCHES [812 mm]
STACK:	9 INCHES [229 mm]	9 INCHES [229 mm]

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, SHEET 1).

CREMATOR REQUIREMENTS

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

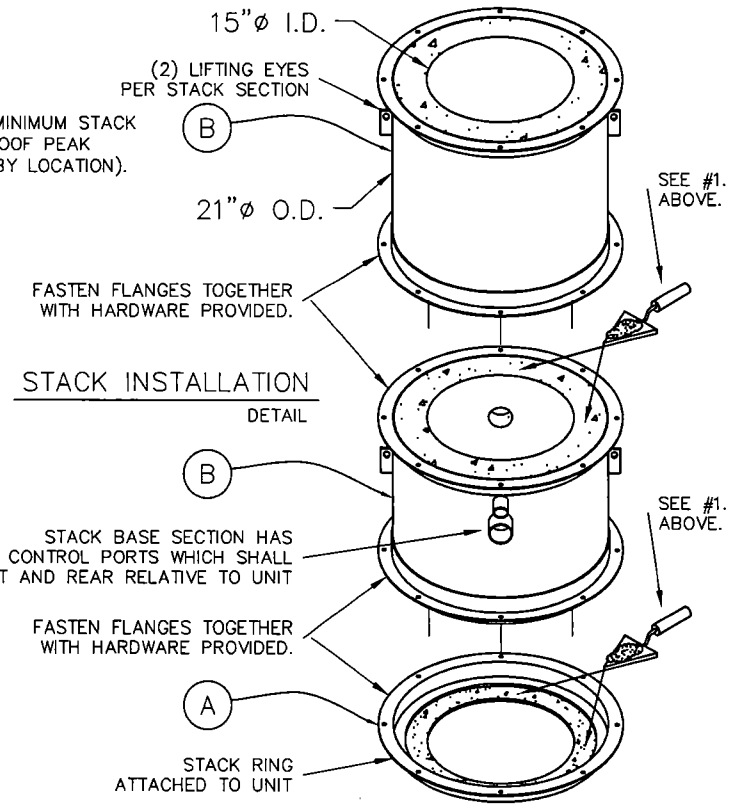
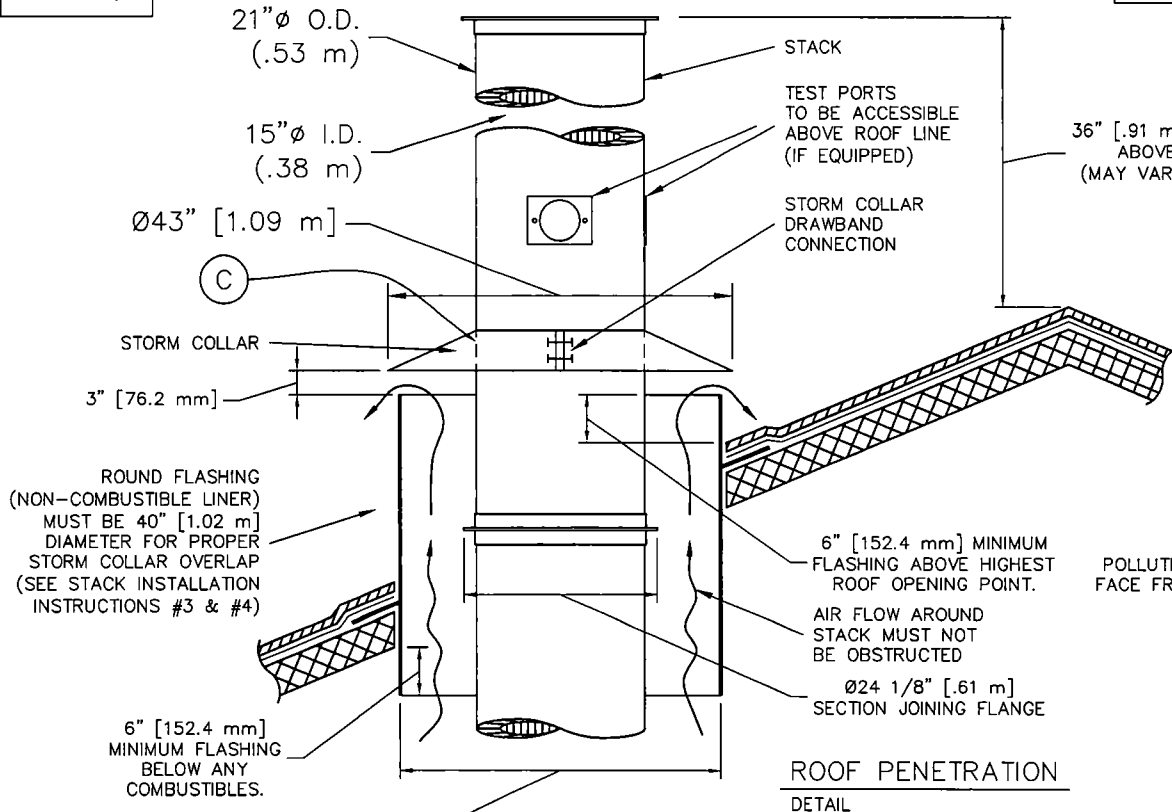
CAPACITY: RANGES FROM 2.0 TO 3.0 MILLION BTU/HR [2.1 TO 3.1 MILLION KILOJULES/HR] DEPENDING UPON AMOUNT OF BURNERS.

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

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

STACK INSTALLATION INSTRUCTIONS

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" [72 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.



Ø40" [1.02 m] REQUIRED FOR PROPER STACK CLEARANCE.



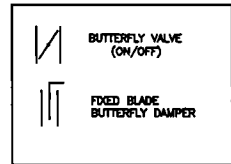
2045 Sprint Boulevard
Apopka, Florida 32703
USA

IEB SERIES 16

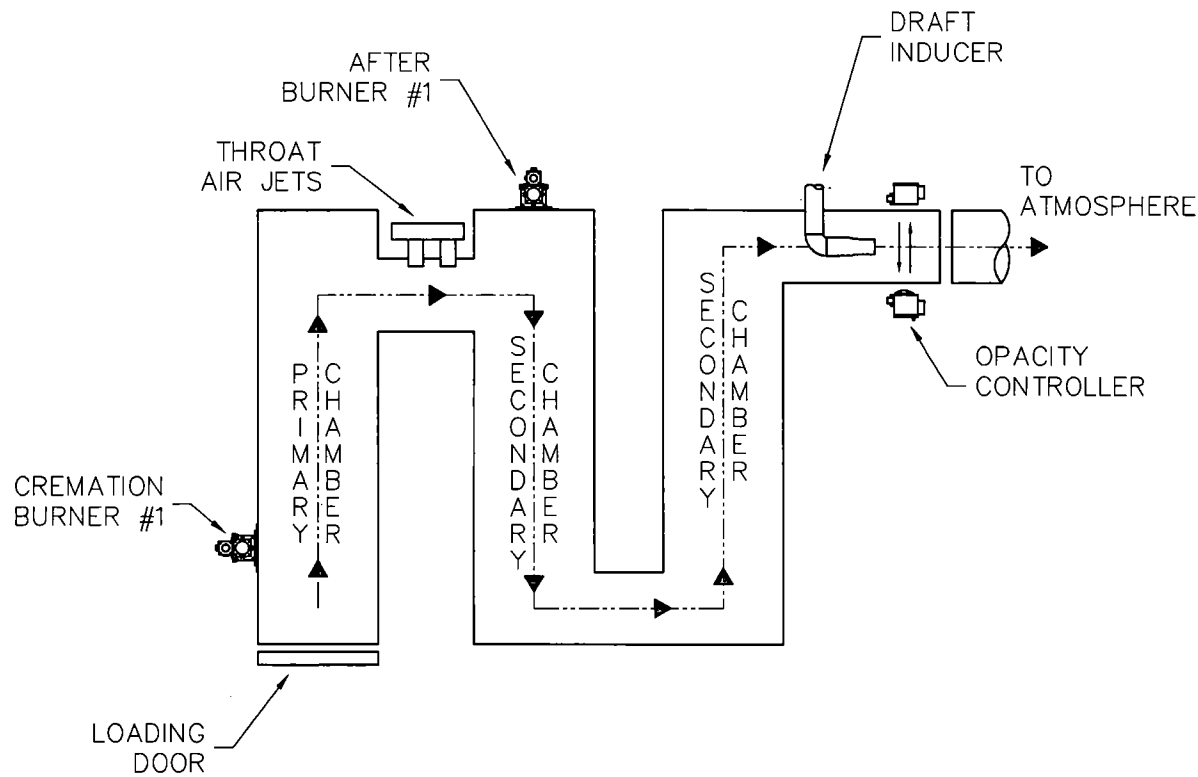
STACK DETAILS, CLEARANCES &
INSTALLATION INSTRUCTIONS.
REFRACTORY STACK DETAIL

DATE:	05-20-11	SCALE:	1/2"=1'
DRAWN:	JG	PLOT SCALE:	1:24
APRVD:		SHEET:	2 OF 2
DWG FILE:	IEB-16-MarketingStackRefS2R5		
DWG #:	0000135		

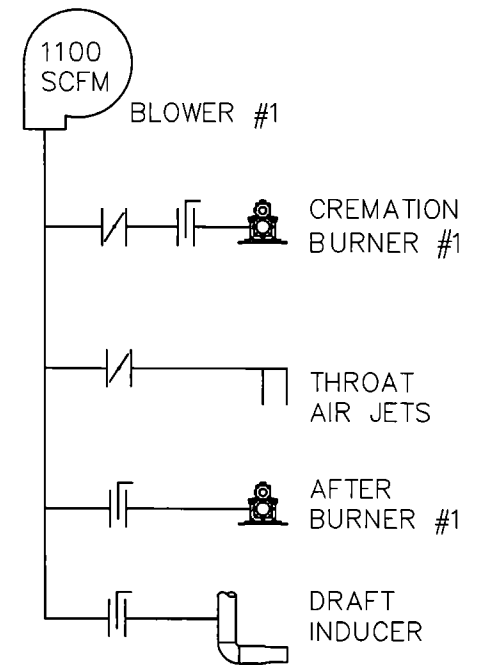
LEGEND OF SYMBOLS



FLOW DIAGRAM



AIR SCHEMATIC



Matthews
CREMATION DIVISION

2045 Sprint Boulevard
Apopka, Florida 32703
USA

IEB-16

FLOW DIAGRAM
& AIR SCHEMATIC

DATE:	04/13/11	SCALE:	1/4"=1'
DRAWN:	MT	PLOT SCALE:	1:48
APRVD:		SHEET:	1 OF: 1
DWG FILE:	IEB16-FlowDiaAirSchem		
DWG #:	0000613		

CREMATOR MASS BALANCE
Matthews Cremation
IEB-16

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

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

WASTE TYPE	TYPE 0	TYPE 4
BTU PER POUND	8500	1000
POUND ASH PER POUND WASTE	0.05	0.05
POUND MOISTURE PER POUND WASTE	0.1	0.85
POUND COMBUSTIBLES PER POUND WASTE	0.85	0.1
HOURLY CONSUMPTION OF WASTE (LBS)	10	90

1. MASS OF PRODUCTS OF COMBUSTION FROM CONTAINER

A. COMBUSTION AIR

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

B. COMBUSTIBLES AND WATER VAPOR FROM CHART ABOVE = 0.95 LB/LB BURNED

C. TOTAL FLUE PRODUCT MASS PER LB BURNED = 7.33 LB/LB BURNED

2. MASS OF PRODUCTS OF COMBUSTION FROM BODY

A. COMBUSTION AIR

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

B. COMBUSTIBLES AND WATER VAPOR FROM CHART ABOVE = 0.95 LB/LB BURNED

C. TOTAL FLUE PRODUCT MASS PER LB BURNED = 1.70 LB/LB BURNED

SPECIFICATIONS	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR)	0.5
SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR)	0.9
ADDITIONAL SECONDARY AIR SUPPLIED (CFM)	200
SEC. CHAMBER OPERATING TEMPERATURE (°F)	1800
SECONDARY CHAMBER VOLUME (CU. FT)	52
SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT)	2.44
FLAME PORT AREA (SQ. FT)	2.95
MIXING BAFFLES AREA (SQ. FT)	1.36

*AIR AT STANDARD CONDITIONS

3. TOTAL FLUE PRODUCTS

A. MAXIMUM PRIMARY BURNER GAS USAGE

$$500000 \text{ BTU/HR} \times 4.8\text{E-}05 \text{ LBS/BTU} = 24 \text{ LBS/HR}$$

B. COMBUSTION AIR FOR PRIMARY BURNER

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

C. MAXIMUM SECONDARY BURNER GAS USAGE

$$900000 \text{ BTU/HR} \times 4.8\text{E-}05 \text{ LBS/BTU} = 43 \text{ LBS/HOUR}$$

D. COMBUSTION AIR FOR SECONDARY BURNER

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

E. PRODUCTS FROM TYPE 0 WASTE (CONTAINER)

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

F. PRODUCTS FROM TYPE 4 WASTE (TISSUE)

$$1.70 \text{ LBS/LB WASTE} \times 90 \text{ LB/HR BURN RATE} = 153 \text{ LBS/HOUR}$$

G. ADDITIONAL SECONDARY CHAMBER COMBUSTION AIR (THROAT AIR)

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

H. TOTAL FLUE PRODUCTS

$$= \underline{\underline{2243 \text{ LBS/HOUR}}}$$

2. VELOCITY AND TIME CALCULATIONS

A. SCFM CALCULATION

(PRODUCTS ASSUMED TO HAVE DENSITY CLOSE TO AIR)

$$2243 \text{ LBS/HR} \times \frac{13.35 \text{ STD. CU. FT/LB}}{60 \text{ MIN/HR}} = 499 \text{ SCFM}$$

B. TOTAL PRODUCTS ACFM @ 1800 °F

$$\frac{2260 \text{ °RANKINE}}{530 \text{ °RANKINE}} \times 499.2 \text{ CFM} = 2129 \text{ ACFM}$$

C. RETENTION TIME

$$\frac{52 \text{ CU. FT}}{2129 \text{ ACFM}} \times \frac{60 \text{ SECONDS}}{1 \text{ MINUTE}} = 1.47 \text{ SECONDS}$$

D. VELOCITY IN FLAME PORT

$$\frac{2129 \text{ ACFM}}{2.95 \text{ SQ. FT}} \times \frac{1 \text{ MINUTE}}{60 \text{ SECONDS}} = 12.0 \text{ FEET/SECOND}$$

E. VELOCITY AT MIXING BAFFLES

$$\frac{2129 \text{ ACFM}}{1.36 \text{ SQ. FT}} \times \frac{1 \text{ MINUTE}}{60 \text{ SECONDS}} = 26.1 \text{ FEET/SECOND}$$

F. VELOCITY IN SECONDARY CHAMBER

$$\frac{2129 \text{ ACFM}}{2.44 \text{ SQ. FT}} \times \frac{1 \text{ MINUTE}}{60 \text{ SECONDS}} = 14.5 \text{ FEET/SECOND}$$

**Source Test Report for
Particulate and
Carbon Monoxide Emissions**

EPA Method 1-5, and 10

Report 3347-S

Conducted:
December 15, 2010

Prepared for:



Paws & Cherish

Pet Cremations, LLC

**Deerfield Beach, Florida
Facility ID 0112720**



Prepared by:
Arlington Environmental Services, Inc.
Post Office Box 657
Okeechobee, FL 34973
(863) 467-0555

1.0 Introduction

Paws & Cherish Pet Cremations, LLC operates a Matthews Cremations Pet Crematory at 4340 N.W. 19th Avenue, Bay E, in Deerfield Beach, Florida. On December 15, 2010, tests for particulate (PM) and carbon monoxide (CO) emissions were performed on the exhaust stack servicing the unit afterburner EU01.

The tests were performed in order to comply with the requirements set forth by Broward County Department of Planning and Environmental Protection, Air Quality Division, Chapter 27 Article IV, Air Quality, Section 27-179(c)(2).

During the testing period Randy Bryant, of Matthews Cremation, maintained a log containing the operating parameters of emission control device and process data. This information is presented in Attachment C.

The results of this test verify compliance with the Florida Department of Environmental Protection Permit 0112720-001-AG and Broward County Department of Planning, Air Quality Division.

2.0 Certification of Test Results

Facility Tested: Paws & Cherish Pet Cremations, LLC
4340 N.W. 19th Avenue, Bay E
Deerfield Beach, Florida 33064

Type Process: Pet Crematory

Abatement Device: Afterburner

Report: 3347-S

Date: December 15, 2010

Allowable Particulate Emissions - 0.080 grains per dry standard cubic foot (gr./dscf) @7% O₂
Actual Particulate Emissions - 0.028 gr./dscf @7% O₂

Allowable Carbon Monoxide Emission Rate - 100 parts per million (ppm) @ 7% O₂
Actual Carbon Monoxide Emission Rate - 0.43 ppm @ 7% O₂

All testing and analysis was performed in accordance with the Florida Department of Environmental Protection and the Code of Federal Regulations, 40, part 60.

I hereby certify that to my knowledge, all information and data submitted in this report is true and correct.



William D. Arlington
Project Director

5.0 Summary of Results
Paws & Cherish Pet Cremations
Pet Crematory - 0112720
Report 3347-S

	Run 1	Run 2	Run 3	Average
Date	12/15/2010	12/15/2010	12/15/2010	
Start Time	8:15	10:20	12:36	
Stop Time	9:17	11:22	13:38	
Process Rate (lbs/hr.)	85	85	90	87
Particulate Emission Rate (gr./dscf @ 7% O ₂)	0.0232	0.0362	0.0236	0.028
Allowable Particulate Emission Rate (gr./dscf @7% O ₂)	0.080	0.080	0.080	0.080
Carbon Monoxide Emission Rate (ppm @7% O ₂)	0.34	0.90	0.06	0.43
Allowable Carbon Monoxide Emission Rate (ppm @7% O ₂)	100	100	100	100

6.0 Carbon Monoxide Emission Results
Paws & Cherish Pet Cremations
Pet Crematory - 0112720
Report 3347-S

	Run1	Run 2	Run 3	Average
Date	12/15/2010	12/15/2010	12/15/2010	
Start Time	8:15	10:20	12:36	
Stop Time	9:17	11:22	13:38	
Percent Oxygen	9.5	9.7	8.2	
Carbon Monoxide (PPM)	0.28	0.72	0.06	
Carbon Monoxide Emissions (PPM @ 7% O ₂)	0.34	0.90	0.06	0.43
Carbon Monoxide Allowable (PPM@ 7% O ₂)	100	100	100	100

7.0 Particulate Emission Results
Paws & Cherish Pet Cremations
Pet Crematory - 0112720
Report 3347-S

	Run 1	Run 2	Run 3
Area (square feet)	1.23	1.23	1.23
Stack Pressure (inches Hg)	30.16	30.16	30.16
Meter Pressure (inches Hg)	30.27	30.28	30.27
Sample Volume (Std. Cu. Ft.)	43.484	43.616	43.172
Water Vapor (Cubic Feet)	6.94	6.32	7.20
Sample Moisture (percent)	13.77	12.66	14.30
Saturation Moisture (percent)	100.00	100.00	100.00
Molecular Weight (lbs/lb Mole wet)	27.99	28.05	28.02
Velocity (fpm)	1149	1234	1272
Volumetric Flow Rate (acfm)	1409	1514	1561
Volumetric Flow Rate (scfm)	401	409	406
Concentration (gr/dscf)	0.0191	0.0292	0.0215
Concentration@7% O2 (gr/dscf)	0.0232	0.0362	0.0236
Mass Emission Rate (lbs./hr.)	0.07	0.10	0.07
Percent Isokinetic	105.18	103.39	103.02

10.0 Summary of Field and Laboratory Data
Paws & Cherish Pet Cremations
Pet Crematory - 0112720
Report 3347-S

	Run 1	Run 2	Run 3
Date	12/15/2010	12/15/2010	12/15/2010
Start Time	8:15	10:20	12:36
Stop Time	9:17	11:22	13:38
CP	0.84	0.84	0.84
Y	1.0030	1.0030	1.0030
^Ha (inches H2O)	1.7369	1.7369	1.7369
Diameter of Nozzle (inches)	0.6220	0.6220	0.6220
Stack Diameter or Equivalent (inches)	15.00	15.00	15.00
Static Pressure (inches H2O)	-0.045	-0.045	-0.045
Barometric Pressure (inches Hg)	30.16	30.16	30.16
Test Time (minutes)	60	60	60
Meter Volume (cubic feet)	41.182	42.090	42.507
Square Root ^P (inches H2O)	0.193	0.201	0.205
Orifice Pressure ^H (inches H2O)	1.513	1.625	1.531
Average Meter Temperature (Deg. F)	47.3	57.0	67.4
Average Stack Temperature (Deg. F)	1153.1	1260.3	1291.4
Particulate Sample Weight (grms)	0.0537	0.0826	0.0603
Water Collected (grms)	147.2	134.1	152.7
Percent CO2	7.5	7.0	8.5
Percent O2	9.5	9.7	8.2
Molecular Weight (lbs/lb Mole)	29.58	29.51	29.69
Nozzle Area (square feet)	0.00211	0.00211	0.00211

August 14, 2012

FDEP Receipts

Attn: Dick Dibble

PO Box 3070

Tallahassee, FL 32315-3070

Please accept the enclosed packet regarding the animal cremation unit we wish to install on our property at Venice Memorial Gardens, 1950 Center Road, Venice, FL 34292.

Respectfully,



John Williams,
Vice President



Cremation Division

August 07, 2012

John Williams
Farley Funeral Home
1950 Center Road
Venice, FL 34292

Dear Mr. Williams,

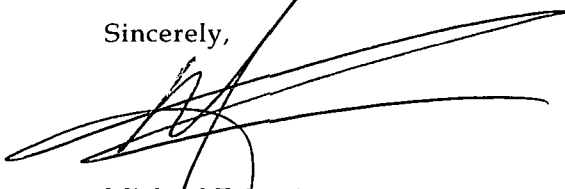
Enclosed are your Air General Permit Registration forms for your new IEB-16 animal cremator. Please fill in the highlighted areas on the forms and make 1 copy of the complete packet.

Once completed, you can keep a copy for your records and send the original signed copies along with a \$100 check (\$100 for each application) payable to Florida Department of Environmental Protection to the following address:

FDEP Receipts
Attn: Dick Dibble
P.O. Box 3070
Tallahassee, FL 32315-3070

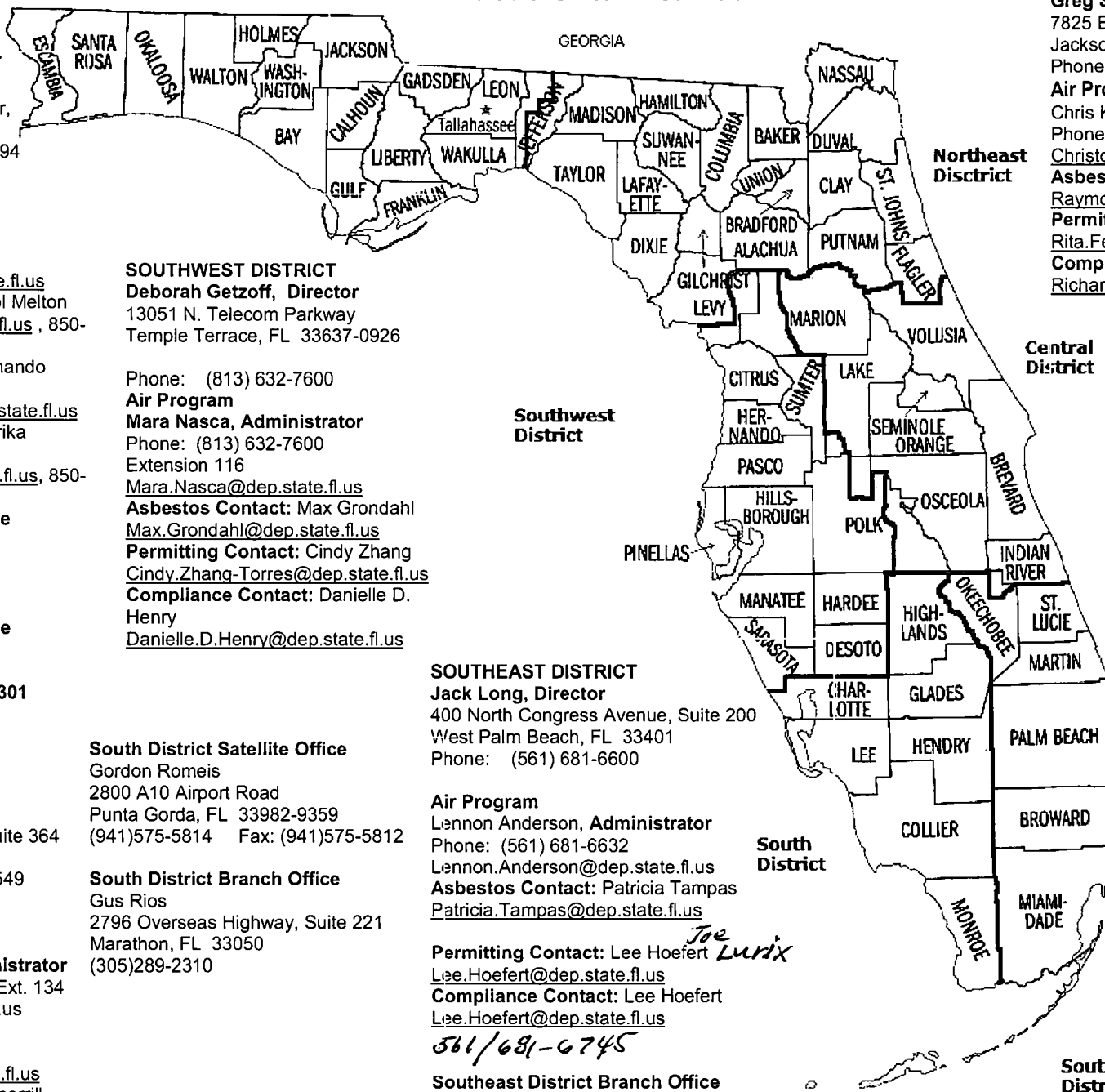
Please add a cover letter with your packet stating your intentions of installing a new animal cremation unit to your existing facility. Please feel free to contact us if you have questions at (800)327-2831. When you finally receive the permit from the state, please fax or mail us a copy so that we can put it in your file.

Sincerely,



Michael Tricoche
Engineer
Enclosures

ALABAMA
Department of Environmental Protection
Northwest District District Office Air Contacts



NORTHWEST DISTRICT
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Southeast District Branch Office
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Compliance Contact:
 Wanda Parker
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Southeast District
 8/03/10

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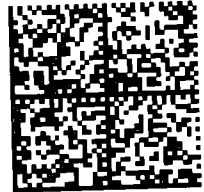


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www.venicememorialgardens.com

SEND

TO:

FDEP Receipts

P.O. Box 3070

Tallahassee, FL

Attn: Dick Dibble 32315-3070