

0951264-207

DEC 17 2012

AG12-0557

**HUMAN 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 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.)

Orlando Crematory, Inc.

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)

Orlando Crematory, Inc.

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

Street Address: 7284 Narcoossee Road

City: Orlando

County: Orange

Zip Code: 32822

Facility Start-Up Date (Estimated start-up date of proposed **new** facility.) (N/A for existing facility)  
January-February 2013

**Owner/Authorized Representative**

<u>Name and Position Title</u> (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.) Print Name and Title: Janene A. Rhodes, Owner		
<u>Owner/Authorized Representative Mailing Address</u> Organization/Firm: Orlando Crematory, Inc. Street Address: 7284 Narcoossee Road City: Orlando County: Orange Zip Code: 32822		
<u>Owner/Authorized Representative Telephone Numbers</u> Telephone: 407-381-7474 Fax: 407-381-7765 Cell phone (optional):		

**Facility Contact (If different from Owner/Authorized Representative)**

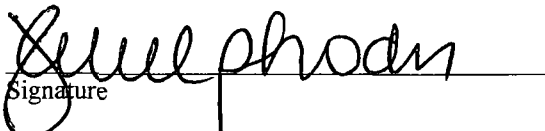
<u>Name and Position Title</u> (Plant manager or person to be contacted regarding day-to-day operations at the facility.) Print Name and Title:		
<u>Facility Contact Mailing Address</u> Organization/Firm: Street Address: City: County: Zip Code:		
<u>Facility Contact Telephone Numbers</u> Telephone: Fax: 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

Dec. 13, 2012  
Date

**Design Calculations**

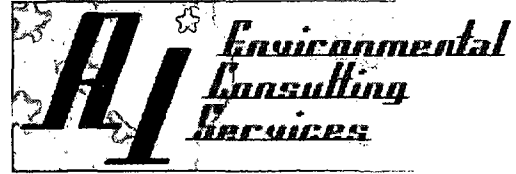
If this is an initial registration for a proposed new human crematory unit, provide design calculations to confirm a sufficient volume in the secondary chamber combustion zone to provide for at least a 1.0 second gas residence time at 1800 degrees F.

- Manufacturer's' design calculations attached. – See Attachment 1 for Compliance Test Report
- 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.

Orlando Crematory is adding a refurbished Crawford Equipment and Engineering C1000 H crematory fired with natural gas. This will make a total of 3 human cremators and one animal crematory at this facility. The C1000H is a multi-chamber unit having an average 150-lbs/hr cremation rate, (approximately 1,000 Btu/lb). The primary chamber burner is rated at 500,000 Btu/hr, and the secondary chamber burner is rated at 1,500,000 Btu/hr, for a total of 2,000,000 Btu/hr. Control of air pollution is achieved through the design of the C1000H crematory, including its ability to operate the secondary chamber between 1600 - 1850 degrees Fahrenheit at a residence time in excess of 1.0 second. The residence time was measured on identical unit at 1.32 seconds. The design also includes independent fuel/air systems, preheated combustion air, secondary chamber temperature monitor and recorder, primary burner temperature interlock (prevents primary burner from firing prior to the secondary chamber reaching its set point temperature), UV continuous scanning flame detectors on burners, and an opacity sensor which can temporarily suspend operation of the primary chamber burner.



December 10, 2012

Florida Department of Environmental Protection  
FDEP Receipts  
PO Box 3070  
Tallahassee, FL 32315-3070

**Re: General Permit for Orlando Crematory, Inc.**  
**Permit: 0951266**  
**Orange County**

To whom it may Concern:

Enclosed is one (1) copy of the above referenced application along with a check made payable to the Florida Department of Environmental Protection in the amount of \$100.00 for the application fee.

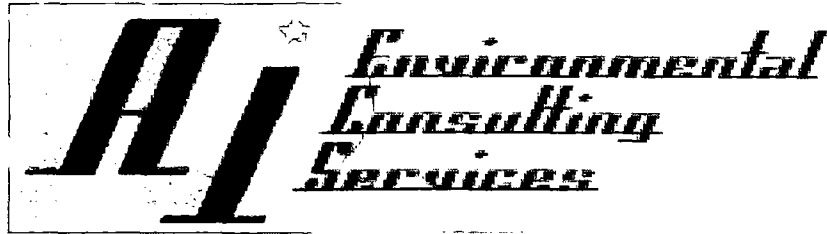
I trust this application is complete; however, should you have any questions or need any additional information for issuing the general permit, please contact me at (407) 574-2021 or e-mail at [AI@CFL.RR.COM](mailto:AI@CFL.RR.COM).

Respectfully submitted,  
AI ENVIRONMENTAL CONSULTING SERVICES

Luis Llorens  
President/Project Manager

Enclosures: One (1) Application and check

RECEIVED  
DEC 18 2012  
DIVISION OF AIR  
RESOURCE MANAGEMENT



***General Permit Application***

***Prepared for:***

***Orlando Crematory, Inc.  
7284 Narcossee Road  
Orlando, FL 32822  
Site ID: 0951266***

***Human Crematorium Facility***

***Prepared By:***

***AI Environmental Consulting Services, Inc.  
598 Northlake Boulevard, Suite 1016  
Altamonte Springs, Florida 32701  
(407) 574-2021***

***Date: December, 2012***

## *Application Contents*

**Form 62-210.920 General Permit Application**

**Attachment 1 – Emission Calculations, Identical Unit Stack Test**

**Attachment 2 – Brochures**

## **Attachment 1 – Emission Calculations, Identical Unit Stack Test**



Emission Unit	Pounds Incinerated Per Hour (Average)	Hours Per Year	SO2	SO2	SO2	Nox	Nox	Nox	TOC	TOC	TOC
			lb/ton	lb/hr	TPY	lb/ton	lb/hr	TPY	lb/ton	lb/hr	TPY
C1000H EU1	150	8760	2.5	0.1875	0.82125	3	0.225	0.9855	3	0.225	0.9855
C1000 Elite EU 2	150	8760	2.5	0.1875	0.82125	3	0.225	0.9855	3	0.225	0.9855
Refurbished C1000H EU 4	150	8760	2.5	0.1875	0.82125	3	0.225	0.9855	3	0.225	0.9855
<b>Total</b>				<b>0.5625</b>	<b>2.46375</b>		<b>0.675</b>	<b>2.9565</b>		<b>0.675</b>	<b>2.9565</b>

CO=100 PPM @ 7% O2 based on manufacturers warranty

PM = 0.08 gr/dscf based on manufacturers warranty

**CO is calculated as follows:**

150 lb/hr x 1E+01 lb/ton x 1 ton/2000 lbs = 0.75 lbs/hr CO  
 0.75 lb/hr CO x 8760 hrs/yr x 1 ton/2000 lbs = 3.29 TPY CO  
**3.29 x 3 cremators = 9.87 TPY CO**

**PM is calculated as follows:**

150 lb/hr x 7E+00 lb/ton x 1 ton/2000 lbs = 0.53 lbs/hr PM  
 0.53 lb/hr PM x 8760 hrs/yr x 1 ton/2000 lbs = 2.32 TPY PM  
**2.32 TPY x 3 Cremators = 6.96 TPY PM**

**Note EU 3 is a C500P animal cremator not listed above.**

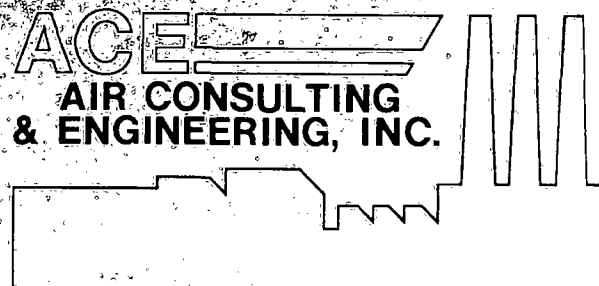


**SOURCE TEST REPORT  
FOR  
PARTICULATE, CARBON MONOXIDE, AND  
VISIBLE EMISSIONS**

**HUMAN CREMATORY**

**HEATH FUNERAL HOME  
LAKELAND, FLORIDA**

**ACE**  
**AIR CONSULTING  
& ENGINEERING, INC.**



**2106 N.W. 67th Place • Suite 4 • Gainesville, Florida • 32653  
(352) 335-1889 FAX (352) 335-1891**