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HUMAN CREMATORY AIR GENERAL PERMIT REGISTRATION FORM Bureau of Monitoring

JAN 1 1 2011

& Mobile Sources

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 NIANNOC 62-4.050, F.A.C. (\$100 as of the effective date of this form)

Registration Type		DI TOUBLE
Check one:		
INITIAL REGISTRATION - Notification ☐ Construct and operate a proposed ☐ Operate an existing facility not on air operation permit to an air generation.	l new facility. urrently using an air general	permit (e.g., a facility proposing to go from an
RE-REGISTRATION (for facilities Continue operating the facility af Continue operating the facility af Make an equipment change requi other change not considered an ac	ter expiration of the current ter a change of ownership. ring re-registration pursuant	term of air general permit use. to Rule 62-210.310(2)(e), F.A.C., or any
Surrender of Existing Air Operation	Permit(s) - For Initial Reg	istrations Only
or operator upon the effective date of the operation permits being surrendered. If	is air general permit. In suc no air operation permits are for this facility are hereby s	th permit(s) must be surrendered by the owner the case, check the first box, and indicate the e held by the facility, check the second box. Surrendered upon the effective date of this air
No air operation permits currently	y exist for this facility.	
General Facility Information		
Facility Owner/Company Name (Name operates, controls, or supervises the faci		ndividual owner who or which owns, leases,
Site Name (Name, if any, of the facility owned, a registration form must be com Russel Haven of Rest		lis Plant, etc. If more than one facility is
Facility Location (Provide the physical Street Address:2335 Sand Ridge Ro	•	necessarily the mailing address.)
City:Green Cove Springs	County:Clay	Zip Code:32043 — 8603

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

Facility Start-Up Date (Estimated start-up date of proposed new facility.) (N/A for existing facility)
Mar 2011

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

Owner/Authorized Representative				
	signing this form below.	certifies that the facility is eligible to use this		
air general permit.)	Jighing uno roun ovro,	offillion was the money to one to not		
Print Name and Title: Sue Campbell				
Finit Name and Time. Suc Campberl				
Owner/Authorized Representative Mailin				
Organization/Firm:Russel Haven of R	_	eral Home		
Street Address: 213 Sand Ridge Rd	2335	22242		
City:Green Cove Springs	County:Clay	Zip Code:32043		
Owner/Authorized Representative Teleph	none Numbers			
Telephone:904-284-7720	Fax	e:		
Cell phone (optional):	- 	••		
To the Court of Mills and Survey Court	/AAl			
Facility Contact (If different from Own				
Print Name and Title:	or person to be contacted	regarding day-to-day operations at the facility.)		
Print Name and Title:				
Facility Contact Mailing Address				
Organization/Firm:				
Street Address:				
City:	County:	Zip Code:		
Facility Contact Telephone Numbers				
Telephone:	Fax	:		
Cell phone (optional):				
L				
Owner/Authorized Representative State	tement			
This statement must be signed and dated	by the person named abov	ve as 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				
		this registration form are true, accurate		
		icility described in this registration form so		
		ollutant emissions found in the statutes of		
the State of Florida and rules of the l	Department of Environme	ental Protection and revisions thereof.		
I will promptly notify the Departmen	t of any changes to the inf	formation contained in this registration		
form.				
. ^				
Sue Campbell		12.22.2010		

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

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. Installation and operation of a B&L Cremation Systems Inc human Crematory Model N-20 Series. 150lbs/hr fired with a LP afterburner, single pen recorder providing constant operation recording of secondary chamber tempurature (1600°F@ 1 second retention) Stack provided with opacity monitoring set at 10%.

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CALCULATIONS FOR PRODUCTS OF COMBUSTION AND RESIDENCE TIME FOR 150 LB/hr TYPE IV WASTE, B&L N-20 SERIES CREMATORY

PROPANE

A. BASIS: 1 LB WASTE

1. <u>1 lb waste X 1000 Btu/lb waste X 15 lbs air</u> = 1.5 lbs air 10,000 Btu

2. 1 lb waste X 0.10 lb combustible = 0.10 lbs of combustibles

3. <u>1 lb waste X 0.85 lb H20 X 1.6*</u> = 1.36 lbs of water l lb waste

4. 6,500 Btu aux fuel** X 23.8 cu ft air/cu ft fuel = 4.64 lbs of air for aux fuel 2,500 Btu/cu ft fuel X 13.35 cu ft air/lb air @ 70f

5. 6,500 Btu aux fuel X 0.044 lb fuel/cu ft fuel = 0.11 lb of aux fuel 2,500 Btu/cu ft fuel

6. Sum = PRODUCTS OF COMBUSTION (POC) = 7.71 lbs POC per lb waste @ 70f

B. RESIDENCE TIME @ 1600 F

- 1. <u>7.71 lbs POC/lbs waste X 51.89 cu ft / lb POC @ 1600f X 150 lbs waste / hr</u> 3600 sec/hr
 - = 16.67 cu ft / sec @ 1600 f = 17.00 cu ft for 1 second residence time

RESIDENCE TIME @ 1800 F

- 2. <u>7.71 lbs POC/lbs waste X 56.93 cu ft / lb POC @ 1800f X 150 lbs waste / hr</u> 3600 sec/hr
 - = 18.1 cu ft / sec @ 1800 f = 19.00 cu ft for 1 second residence time
- * Correction multiplier for dry air and water vapor
- ** Fuel is propane

Referances: Incinerator institute of America.

North American Combustion Handbook
Eclipse Combustion Engineering guide

C. THERMOCOUPLE PLACEMENT.

Secondary chamber operating temperature at > or = to 1600f = 17.00 cu ft from flame tip. 1800f = 19.00 cu ft from flame tip.



Systems, Inc.

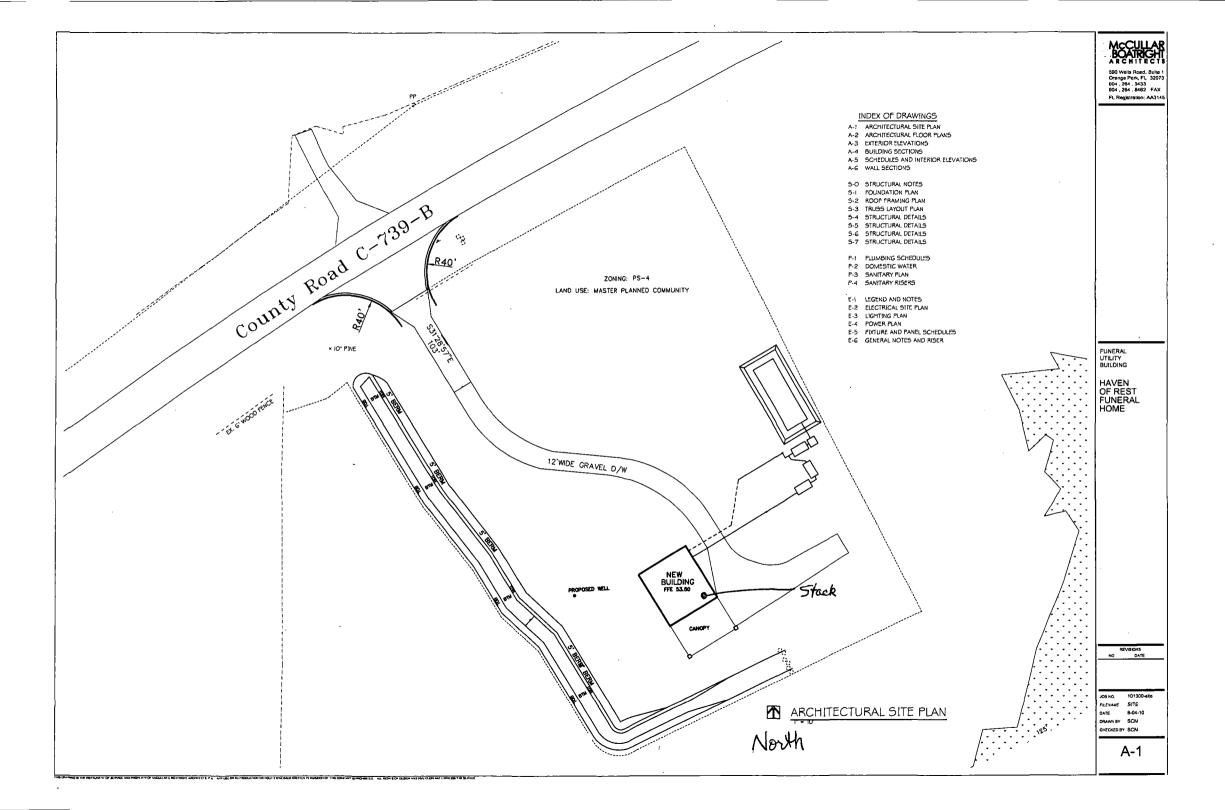
7205 - 114th Avenue North • Largo, Florida 33773 1-800-622-5411 • 727-541-4666 • Facsimile 727-547-0669

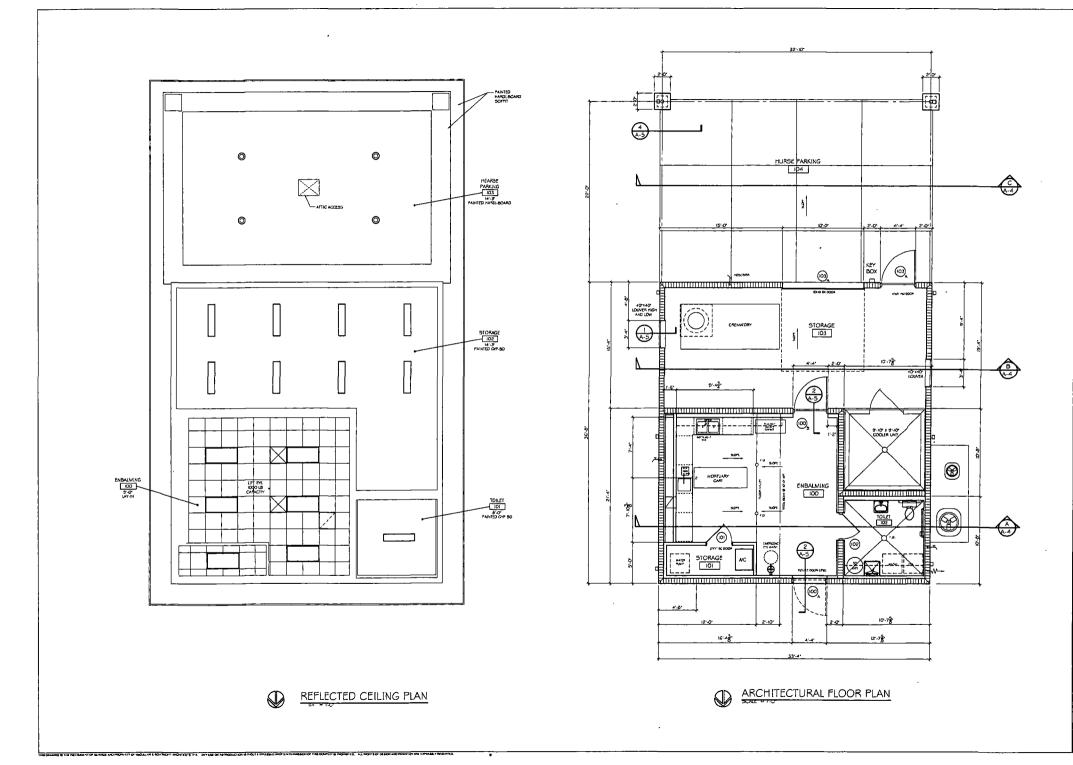
TEMPERATURE CONTROL SEQUENCE

A type "K" thermocouple is placed 19³ ft. down stream of the flame tip to measure temperature, the signal is sent to the main control panel where it is received by a FUJI PYZ series temperature controller with digital readout and a DR4200 temperature recorder. The FUJI PYZ series temperature controller controls the temperature via a motorized butterfly valve located on the afterburner inlet gas assembly. Gas demand is controlled by temperature to maintain a steady temperature. The ignition/cremation burner is interlocked to the afterburning temperature by the FUII PYZ series temperature controller set point. Combustion cannot start until temperature set point is reached. Alarm-contacts in the FUJI-PYZ series temperature controller are utilized for over (high) temperature conditions. 100° F over set point the afterburner will be in maximum low fire and the ignition/cremation burner will shut off. The butterfly valve located on the secondary air inlet is controlled by a separate temperature out put to add air to cool the system. At set point the unit will return to normal operation. An optimonitor smoke detector is placed on the stack and set at 10% opacity if emissions occur the alarm will sound; a visual red warning lamp located on the control panel will illuminate and the primary burners will shut off. The excess air butterfly valve will open to add air to the secondary chamber to oxidize the emissions. After a five (5) minute period the unit will revert to normal operation.

TX/RX NO.7179

12/02/96





BOAT A R C H I 590 Wells R Orange Park 904 , 284 , 8 904 , 284 , 8 FL Registrat

FUNERAL UTILITY BUILDING HAVEN OF REST FUNERAL HOME

JOB NO. 10134
FILENAME ER-FI
DATE 8-G4DRAWN BY SCM
CHECKED BY SCM

A-2

2010 FOR PROFIT CORPORATION ANNUAL REPORT

DOCUMENT# P99000092912

Secretary of State

Entity Name: RUSSELL HAVEN OF REST CEMETERY, INC.

Current Principal Place of Business:

New Principal Place of Business:

2315 SANDRIDGE ROAD

GREEN COVE SPRINGS, FL 32043 US

Current Mailing Address:

New Mailing Address:

2429 SANDRIDGE ROAD

GREEN COVE SPRINGS, FL 32043 118

FEI Number: 58-2503797

FEI Number Applied For ()

FEI Number Not Applicable ()

Certificate of Status Desired ()

Name and Address of Current Registered Agent:

Name and Address of New Registered Agent:

CAMPBELL, JERRY LEE 2429 SANDRIDGE RD.

GREEN COVE SPRINGS, FL 32043

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE:

Electronic Signature of Registered Agent

Date

Election Campaign Financing Trust Fund Contribution ().

OFFICERS AND DIRECTORS:

Title:

Name: CAMPBELL, SUE W 2429 SANDRIDGE RD Address:

City-St-Zip:

GREEN COVE SPRINGS, FL 32043

Title:

Name: Address:

CAMPBELL, JERRY L 2429 SANDRIDGE RD

City-St-Zip:

GREEN COVE SPRINGS, FL 32043

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: SUE W. CAMPBELL

Р

04/01/2010

RUSSELL HAVEN OF REST CEMETERY AND FUNERAL HOME 2429 Sandridge Road Green Cove Springs, FL 32043



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FDEP P.O. Box 3070 Jallahassee, FL 32315-3070