

Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

June 25, 2008

Mr. Charles Davis, President Chas E. Davis Funeral Home, Incorporated 3075 South Florida Avenue Inverness, Florida 33450

Dear Mr. Davis:

This is to acknowledge that your notification of intent to use the authority of Rule 62-210.310 to operate your facility was received on May 20, 2008. We have assigned ARMS No. <u>0170031-003</u> to this facility.

As you know, pursuant to Florida Statutes section 403.814, authority to operate under general permits commences thirty days after receipt of the registration form unless you have been notified by this office that your facility has not shown entitlement to operate pursuant to the rule provisions.

For your information, authority to operate pursuant to Rule 62-210.310 expires after 5 years. Therefore, a new registration form must be received no later than 5 years after the date your notice was received as indicated above. If your general permit rule conditions require testing, such testing must be completed within the time frame specified in the rule.

If you have any additional questions, please contact Dickson Dibble at 850/921-9586.

Sincerely,

Sandra F. Veazey, Chief
Bureau of Air Monitoring
and Mobile Sources

SFV/pg

cc: Ms. Danielle Henry, Southwest District

HUMAN CREMATORY AIR GENERAL PERMIT REGISTRATION FORM

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 Registration Form and submit it to the appropriate Department of Environment of Environment of Information, and enclose the appropriate Department of Environment 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 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)						
Registration Type 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.) CHAS. E. DAVIS FUNERAL HOME, 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.) CHAS. E. DAVIS FUNERAL HOME						
Facility Location (Provide the physical location of the facility, not necessarily the mailing address.) Street Address: 3075 SO. FLORIDA AVENUE						
City: INVERNESS County: CITRUS Zip Code: 33450						
Facility Start-Up Date (Estimated start-up date of proposed new facility.) (N/A for existing facility)						

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 below, certifies that the facility is eligible to use this air general permit.) Print Name and Title: CHARLES DAVIS, PRESIDENT - OWNER Owner/Authorized Representative Mailing Address Organization/Firm: CHAS. E. DAVIS FUNERAL HOME, INC. Street Address: 3075 SO. FLORIDA AVENUE City: INVERNESS County: CITRUS Zip Code: 33450 Owner/Authorized Representative Telephone Numbers Telephone: (352) 726-8323 Fax: (352) 726-8944 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: SAME AS ABOVE 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. MAY 1 6 2008

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

Charles Ec

Signature

Date

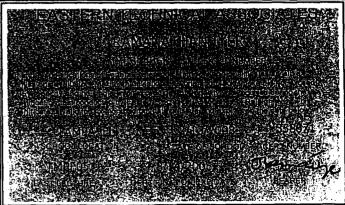
	Design Calculations
	If this is an initial registration for a proposed new human crematory unit, provide design calculations to confirm a sufficient volume in the secondary chamber combustion zone to provide for at least a 1.0 second gas residence time at 1800 degrees F.
	Manufacturer's' design calculations attached.
	X 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.
	THIS UNIT IS A B&L CREMATIONS SYSTEMS, INC. N20 SERIES 150 LB/HR HUMAN CREMATORY INCINERATOR. THE CREMATORY IS DESIGNED TO BURN HUMAN REMAINS AT THE AVERAGE INCINERATION RATE OF 150 POUNDS PER HOUR. THE INCINERATOR CONSISTS OF PRIMARY AND SECONDARY (AFTERBURNER) CHAMBERS, EACH FIRED EXCLUSIVELY ON PROPANE (LPG) WITH A MAXIMUM TOTAL DESIGN HEAT INPUT RATE OF 1.3 MMBTU/HR (0.3 MMBTU/HR. PRIMARY CHAMBER, 1.0 MMBTU/HR. SECONDARY CHAMBER).
	EMISSIONS ARE CONTROLLED BY THE AFTERBURNER, WHICH WILL MAINTAIN A MINIMUM SECONDARY CHAMBER COMBUSTION ZONE TEMPERATURE OF 1600 DEG F PRIOR TO AND DURING COMBUSTION OF MATERIAL IN THE PRIMARY CHAMBER. THE SECONDARY CHAMBER IS DESIGNED TO INSURE ONE SECOND RESIDENCE TIME AT A GAS TEMPERATURE OF 1800 DEG F, AND IS EQUIPPED WITH A CONTINUOUS TEMPERATURE MONITOR AND RECORDER.
	THE UNIT IS EQUIPPED WITH AN OPACITY MONITOR THAT WILL ADJUST THE CREMATION PROCESS IF EXCESS OPACITY IS MEASURED. OPACITY MONITOR INFORMATION IS ATTACHED.
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Southern Environmental Sciences, Inc. 1204 North Wheeler Street | Plant City, Florida 33563 | (813) 752-5014, Fax (813) 752-2475

VISIBLE EMISSIONS EVALUATION

COMPANY CHASE-D	AVIS FUNERAL HOME						
UNIT HUMBN C	REMATURY						
ADDRESS 7075	S. FLORING AVENUE						
(nventess, FL							
PERMIT NO. 0170031-002-AG	COMPLIANCE? YES IN O						
AIRS NO. 0170031	EUNO. OOI						
PROCESS RATE ADULT SIZE BODY	PERMITTED RATE ADULT SIZE						
PROCESS EQUIPMENT 08L	N20 HUMAN CREMATTRY						
CONTROL EQUIPMENT AFTENBURNER							
PROPERE FIRED	AMBIENT TEMP. (° F) START & B STOP						
HEIGHT ABOVE GROUND LEVEL START / STOP	HEIGHT RELATIVE TO OBSERVER START CITY ISTOP						
DISTANCE FROM OBSERVER START STOP	DIRECTION FROM OBSERVER START, 290 STOP						
EMISSION COLOR んことと	PLUME TYPE CONTIN. □ INTERMITTENT □ P						
WATER DROPLETS PRESENT?	IS WATER DROPLET PLUME ATTACHED D DETACHED D P						
POINT IN PLUME AT WHICH OPACITY ISTART STACK ENT ST	NAS DETERMINED						
DESCRIBE BACKGROUND START SKY STOP							
BACKGROUND COLOR STARTISM STOP	SKY CONDITIONS START SCATSTOP						
WIND SPEED (MPH) START, 10-15 STOP	WIND DIRECTION STARTY STOP						
AVERAGE OPACITY FOR HIGHEST PERIOD	RANGE OF OPACITY READINGS						
SOURCE LAYOUT SKETCH ////	CLEARING Draw North Arrow CLEARING TO Draw North Arrow GLO IN England Point GLO IN Engl						
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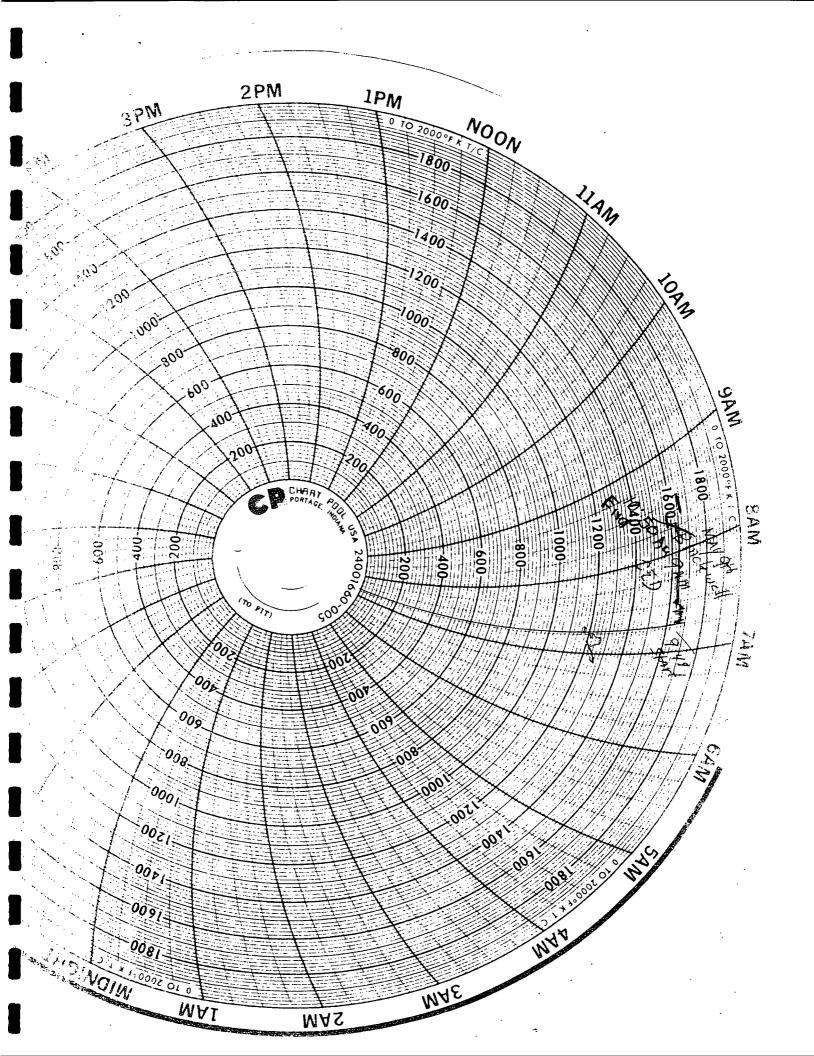
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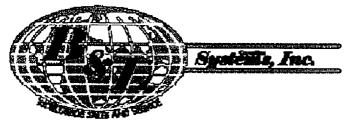


I certify that all data provided to the person conducting the test was true and correct to the best of my knowledge:

Signature:

Monager





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

TEMPERATURE CONTROL SEQUENCE

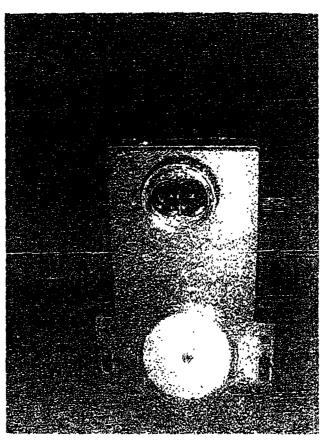
A type "K" thermocouple is placed 19 - 20 ft³ downstream of the afterburner flame tip to measure temperature. The downstream distance is determined based on residence time calculations. The temperature signal is sent to the main control panel where it is received by a FUJI PYZ series temperature controller with a digital readout and a Honeywell DR4200 temperature recorder. The temperature controller controls the temperature via a motorized butterfly valve located on the afterburner inlet gas assembly. Gas demand is controlled to maintain a steady temperature. The ignition/cremation burner is interlocked to the afterburner temperature by the temperature controller set point. Combustion cannot start until temperature set point is reached. Alarm contacts in the 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 output 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 operations.



Systems, Inc.

7205 - 114th Avenue North + Largo, Florida 33773 1-800-622-5411 + 727-541-4666 + Tacsimile 777-547-0669 c-mail: bicremsys@aol.com + www.bicremationsystems.com

VISIBLE OPACITY MONITOR (VOM-1)



APPLICATION: menitoring control used on retorts to warn operators and shut down processes based on opacity.

IMPROVED RUGGED DESIGN

EASY TO INSTALL AND SUPPORT

UNAFFECTED BY AMBIENT LIGHT

EXTERNAL ADJUSTMENT

SPANS UP TO 6 FEET

VISIBLE LED LIGHT SOURCE

World's Largest Independent Cremation Equipment Manufacturer

B&L CREMATION SYSTEMS, INC.

GENERAL PURPOSE OPACTLY MONITOR

SPECIFICATIONS

LIGHT SOURCE: Pulsed visible LED

SPECTRAL RESPONSE: Between 400nm and 500nm

ANGLE OF VIEW. Less than 4 degrees from axis

AMBIENT LIGHT: No measurable effect

MAXIMUM DISTANCE BETWEEN MONITOR AND REILECTOR, 6 Feet

MONITOR TYPE: Retro reflective using a 3" reflector

ADJUSTMENT RANGE: 0 TO 100% opacity

ACCURACY: +/- 3% of full scale

POWER: 24 VAC, less than 10 VA

OUTPUT: Relay, DPDY: 5.0 A @ 102 VAC

LED indicator for sensitivity adjustment

TEMPERATURE: Storage, +7 degrees to 32 degrees C Operating: -29 degrees to 66 degrees C

PHYSICAL, 8,000"H x 5,750"W x3,375" D

ENCLOSURF: Meets NEMA 3, 4, and 12 specs

OPACITY MONITOR ADJUSTMENT PROCEEDURE (NEW)

The following procedure may be necessary to be performed from time to time due to vibration on the top of the retort. This procedure is designed to be both simple and quick, and to insure the proper operation of your retort.

It is suggested that before starting, this procedure be carefully read, and if you have any questions, call the service dept. at B&L Cremation Systems. A service technician will be happy to answer any questions or assist you with the alignment / adjustment of your opacity monitor.

The best time to perform this procedure is on a cool retort.

Please check the cleanliness of the opacity monitor lens and reflector. Inspect the reflector for any damage, replacing it as necessary.

You will need the following tools.
6" adjustable wrench
7/16" wrench
A Phillips scrowdriver
A small straight slot screwdriver
6' to 8' step ladder

Step 1: Open the electrical cabinot located on your retort. Inside, locate the "CI BLOWER" contactor. At the bostom of the contactor, from left to right, you will see a red "STOP" button. To the right of this is a blue "RESET" button. Above this is a "TEST" slot (see fig. 1).

Step 2: Using a pen, push the test slot to the left until only black is visible. This will disable the main blower, allowing you to adjust the opacity monitor, and hear the internal relay click

Step 3: Turn on the rotost with the main timer set to zero. The "Cool Down" lamp should be illuminated.

Step 4 Next, it will be necessary to got on top of the retort. Inspect the opacity monitor, locating the red alignment L.E.D. and the sensitivity adjustment (see fig. 2). The red L.E.D. should be lit, and by passing your hand in front of the lens, you should be able to hear the opacity monitor click. If you are experiencing minor nuisance tripping of the opacity system, turn the sensitivity adjustment CLOCKWISE approximately 1/8 of a turn. This should correct the problem. Now press the round blue "RBSET" button located on the "C1 BLOWER" contactor in the electrical cabinet. Your retort is now ready to operate. If, however, the red L.E.D. is not illuminated or you do not hear the clicking when you pass your hand in front of the monitor, proceed to step 5.

Step 5: Turn the sensitivity adjustment FULLY CLOCKWISE. Loosen the two mounting bolts holding the opacity monitor. By slowly moving the opacity monitor (left or right, forward or backward), obtain the maximum brightness possible for the L.E.D. Carefully tighten one of the mounting bolts, using shims as necessary, then snug the remaining bolt. Do NOT tighten this bolt. Turn the sensitivity adjustment COUNTERCLOCKWISE until the monitor clicks. Turn the sensitivity adjustment CLOCKWISE until you hear the monitor click again, then continue CLOCKWISE an additional 1/8 turn. The opacity monitor is now correctly set. Press the round blue "RESUT" button on the "C1 BLOWER" contactor, completing the alignment procedure. Please note: if the circuit board is black counterclockwise and clockwise are reversed. Counterclockwise will be clockwise and clockwise will be counterclockwise.

If the red L.B.D. does not illuminate, or if the monitor does not click, please contact the service department at B&L Cremation Systems to further assist you.

OPACITY MONITOR ADJUSTMENT PROCEEDURE

FIGURE L'CL BLOWLE"

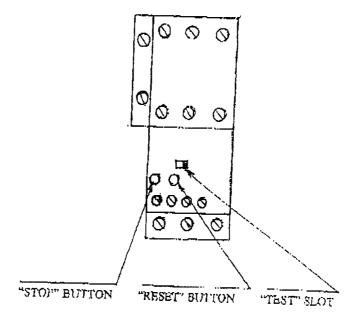
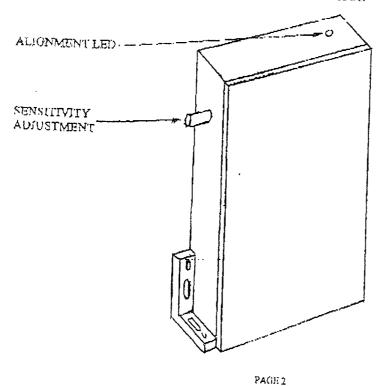


FIGURE 2, OPACITY MONITOR



Florida Department of Environmental Protection Cash Receiving Application (CRA) Cashlisting by Deposit #: 281666 thru 281666 Printed: 5/20/2008 4:39:21 PM - Page 7

Cashlisting:

68584

Cashlist Area:

3755

Description: DIV OF AIR RESOURCES MGMT.

Deposit No:

281666

Date Deposited: 05/20/2008

Contact: E. WALKER

Object 002272	Transmittal	Dep <u>DDN</u>	Receipt Number 625564	Pre- Numbered <u>Receipt</u>	Name CHAS DAVIS FUNERAL HOME, INC.	Check Number 67705	Payment Amount \$100.00	Reference Account 6170031-003 5/23/2608-HC	Payment Number 877744	Remittance Number 778743	Eund PFTF	<u>Grant</u>
					Object Code 002272 Subtotal:		\$100.00	5/ 5/9/2000. 11				
002303	48516		625626		CITY OF JACKSONVILLE	00832650	\$1,800.00		877767	778871	PFTF	
					Object Code 002303 Subtotal:		\$1,800.00	·				
002304	48516	,	625626		CITY OF JACKSONVILLE	00832650	\$500.00		877768	778871	PFTF	
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					Cashlisting 68584 Total:		\$2,420.00					

