



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

January 16, 2008

Ms. Dee Thompson
Panhandle Animal Welfare Society
752 Lovejoy Road
Fort Walton, Florida 32548

Dear Ms. Thompson:

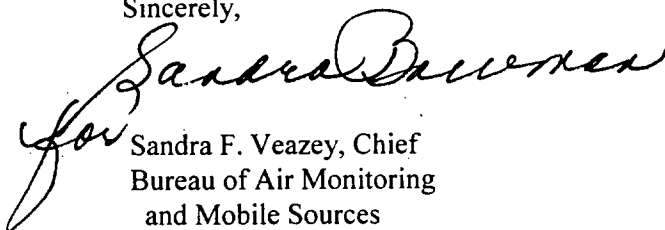
This is to acknowledge that your notification of intent to use the authority of Rule 62-210.310 to operate your facility was received on December 10, 2007. We have assigned ARMS Number 0910050-004 to this facility.

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: Mr. Armando Sarasua, Northwest District

RECEIVED

DEC 12 2007

**HUMAN CREMATORY
AIR GENERAL PERMIT REGISTRATION FORM**

Bureau of Air Monitoring

& 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 62-4.050(4)(o), F.A.C. (\$100 as of the effective date of this form)

0910050-004

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.)

PANHANDLE ANIMAL WELFARE SOCIETY

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.)

FT. WALTON BEACH

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

Street Address: 752 LOVEJOY ROAD

City: FT. WALTON BEACH

County: OKALOOSA

Zip Code: 32548

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

3/31/08, ie STARTUP OF NEW UNIT

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: DEE THOMPSON, DIRECTOR

Owner/Authorized Representative Mailing Address

Organization/Firm: PANHANDLE ANIMAL WELFARE SOCIETY

Street Address: 752 LOVEJOY ROAD

City: FT. WALTON BEACH

County: OKALOOSA

Zip Code: 32548

Owner/Authorized Representative Telephone Numbers

Telephone: 850-243-1525

Fax: 850-664-0445

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):

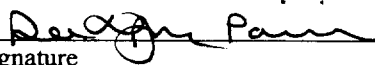
Owner/Authorized Representative Statement

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.

Signature



Date

12/4/07

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.

This notification is for replacement of an existing B & L Systems BLP1000 animal crematory with a new B&L Systems BLP1500 animal crematory. The new unit is designed to burn a batch load of 1500 pounds of animal remains at an average rate of 150 pounds per hour. The incinerator consists of primary and secondary (afterburner) chambers, fired exclusively on natural gas, and has a maximum total design heat input rate of 1.75 mmBTU per hour (1.0 mmBtu per hour, primary chamber and 0.75 mmBTU per hour, secondary chamber).

Emissions are controlled by the afterburner which is designed to maintain a minimum secondary chamber combustion zone temperature of 1,600 ° F prior to and during combustion of material in the primary chamber. The secondary chamber is also designed to ensure a residence time greater than one second at a gas temperature of 1,800 ° F and is equipped with a continuous temperature monitor and recorder.

The unit is equipped with an opacity monitor that will shut down the primary burner if visible emissions are detected.

**CALCULATIONS FOR PRODUCTS OF COMBUSTION
AND RESIDENCE TIME FOR
B & L CREMATION SYSTEMS BLP1500
NATURAL GAS FIRED,
150 LB/HR, TYPE IV WASTE, ANIMAL CREMATORY**

A. BASIS: 1 LB WASTE

1. $\frac{1 \text{ lb waste} \times 1000 \text{ Btu/lb waste}}{10,000 \text{ Btu} / 15 \text{ lb air}} = 1.5 \text{ lbs air}$
2. $\frac{1 \text{ lb waste} \times 0.10 \text{ lb combustible}}{\text{lb waste}} = 0.10 \text{ lbs of combustibles}$
3. $\frac{1 \text{ lb waste} \times 0.85 \text{ lb H}_2\text{O} \times 1.6^{(1)}}{\text{lb waste}} = 1.36 \text{ lbs of water}$
4. $\frac{6500 \text{ Btu aux fuel}^{(2)} \times 10 \text{ ft}^3 \text{ air/ft}^3 \text{ fuel}}{1050 \text{ Btu/ft}^3 \text{ fuel} \times 13.35 \text{ ft}^3 \text{ air/lb air @70}^\circ\text{F}} = 4.63 \text{ lb of air for aux fuel}$
5. $\frac{6500 \text{ Btu aux fuel} \times 0.044 \text{ lb fuel/ft}^3 \text{ fuel}}{1050 \text{ Btu/ft}^3 \text{ fuel}} = 0.27 \text{ lb of aux. fuel}$
6. Sum = PRODUCTS OF COMBUSTION (POC) = **7.86 LBS POC PER LB OF WASTE @ 70 °F**

B. RESIDENCE TIME @ 1800°F

$$\frac{7.86 \text{ lb POC/lb waste} \times 56.93 \text{ ft}^3/\text{lb POC @1800 }^\circ\text{F} \times 150 \text{ lb waste/hr}}{3600 \text{ sec/hr}}$$

$$= 19 \text{ ft}^3/\text{sec @1800}^\circ\text{F}$$

$$= 19 \text{ ft}^3 \text{ for 1 second residence time}$$

Thermocouple placement at: 20 ft³

Secondary chamber operating temperature ≥ 1600 °F

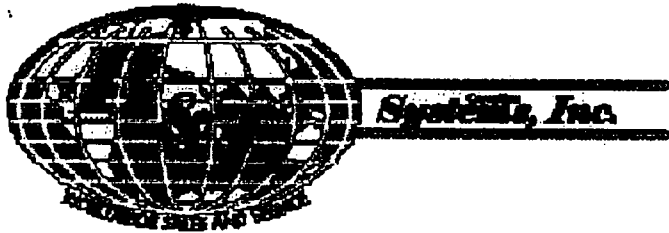
- (1) Correction multiplier for dry air and water vapor
- (2) Fuel is natural gas

References: Incinerator Institute of America
North American Combustion Handbook



BLI-1500/150 - *Medium Batch Incinerator* **SPECIFICATIONS**

Dimensions:	Height: 84" (96" with afterburner) Width: 68" (82" with control panel) Length: 131" (139" with loading door) Weight: 23,000 lbs. approximate
Load Capacity Maximum:	1500 lbs
Cremation Rate:	150 lbs per hour
Chamber Dimensions:	54" Wide, 74" Long, 48" High 111 Cubic Feet
Stack Height:	15 feet refractory-lined stack - 24" O.D.
Refractory/Insulation:	4" Castable Refractory Lining 3" 1900 degree - Board Insulation
Power Requirements:	220 volts, 1-Phase, 30 AMPS
Gas Pressure:	Natural Gas: 7" W.C. Propane: 11" W.C. Fuel Oil:
Burner Output:	
Maximum Input Rating:	1,750,000 BTU's per hour
Afterburner Maximum:	750,000 BTU's per hour
Modulation Minimum:	100,000 BTU's per hour
Cremation Burner:	1,000,000 BTU's per hour
Air Requirements:	Outside air Inlet louvers in the room located at or below burner height, capable of passing 2,500 CFM of free air



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

TEMPERATURE CONTROL SEQUENCE

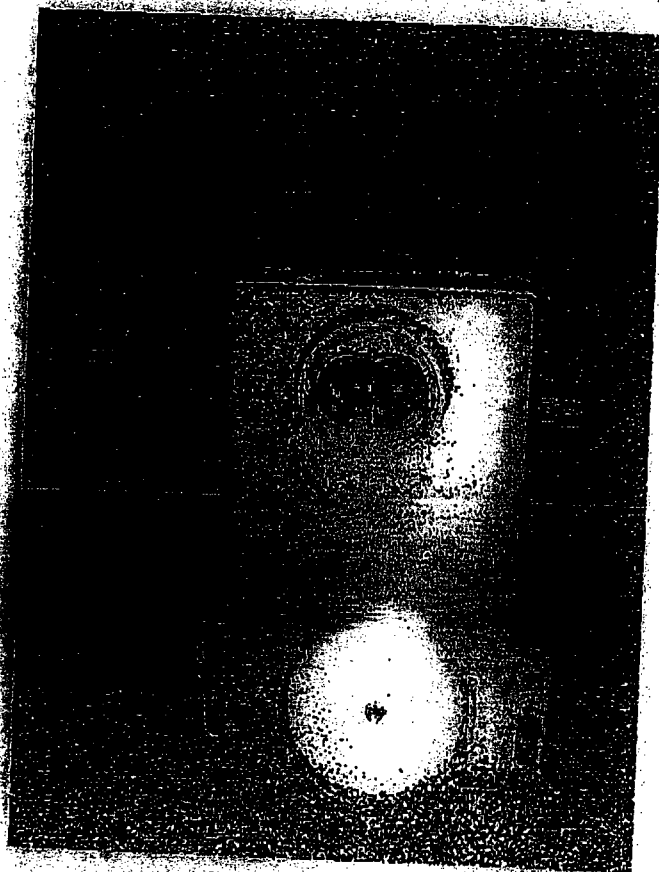
A type "K" thermocouple is placed 19 – 20 ft³ downstream of the afterburner flame tip to measure temperature. The downstream distance is determined based on residence time calculations. The temperature signal is sent to the main control panel where it is received by a FUJI PYZ series temperature controller 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 • Facsimile 727-547-0669
 e-mail: bicremsys@aol.com • www.bicremationystems.com

VISIBLE OPACITY MONITOR (VOM-1)



APPLICATION: monitoring 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 OPACITY 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 REFLECTOR: 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, DPDT, 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 x 3.375" D

ENCLOSURE: Meets NEMA 3, 4, and 12 specs

OPACITY MONITOR ADJUSTMENT PROCEDURE (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 screwdriver
- A small straight slot screwdriver
- 6' to 8' step ladder

Step 1: Open the electrical cabinet located on your retort. Inside, locate the "C1 BLOWER" contactor. At the bottom 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 retort with the main timer set to zero. The "Cool Down" lamp should be illuminated.

Step 4: Next, it will be necessary to get 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 "RESET" 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 "RESET" 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.E.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 PROCEDURE

FIGURE 1 "C1 BLOWER"

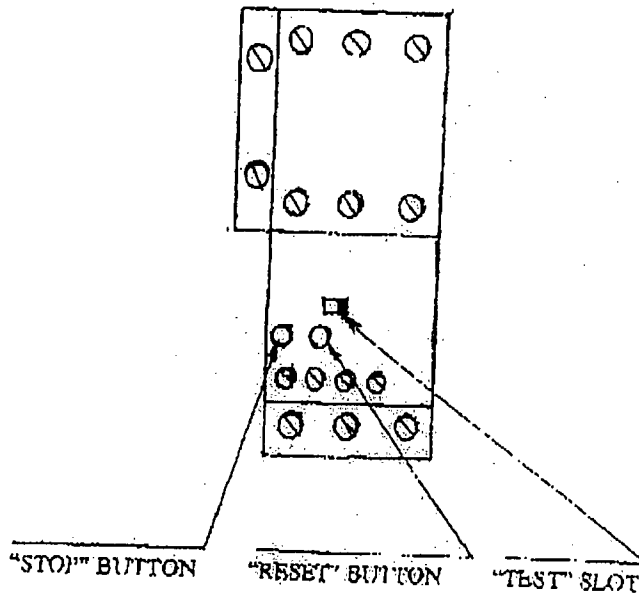
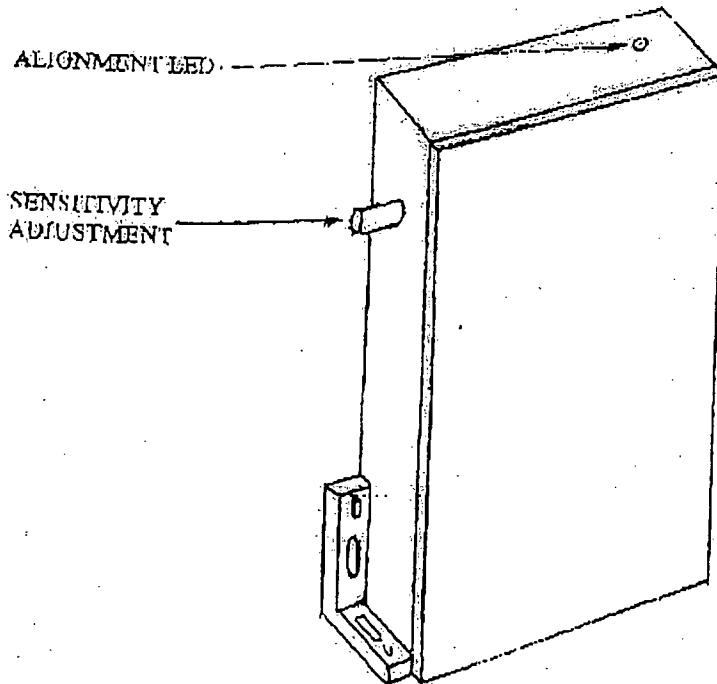


FIGURE 2, OPACITY MONITOR



**Florida Department of Environmental Protection
Cash Receiving Application (CRA)
Cashlisting by Deposit #: 281331 thru 281331
Printed: 12/10/2007 4:44:23 PM - Page 11**

Cashlisting: **65541** Cashlist Area: **3755** Description: **DIV OF AIR RESOURCES MGMT.**
 Deposit No: **281331** Date Deposited: **12/10/2007** Contact: **PATTY ADAMS**

Object	Transmittal	Dep DDN	Receipt Number	Pre-Numbered Receipt	Name	Check Number	Payment Amount	Reference Account	Payment Number	Remittance Number	Fund
002272	46018	479049	609056		TOWN & COUNTRY CLEANERS	1243	\$100.00		852342	758119	PFTF
	46018	479062	609069		PANHANDLE ANIMAL WELFARE SOCIE	12153	\$100.00	✓ 12/17/07 - HC 0910050-004	852365	758132	PFTF
	46025		609138		GULF COAST READY MIX	6430	\$100.00		852464	758246	PFTF
Object Code 002272 Subtotal:							\$300.00				
002278	46018	479054	609061		MANSFIELD INDUSTRIAL	246874	\$200.00	42055	852350	758124	APCTF
	46018	479057	609064		ABATEMENT & DEMOLITION SERVICE	09897	\$200.00	46702	852356	758127	APCTF
	46018	479057	609064		ABATEMENT & DEMOLITION SERVICE	09897	\$100.00	46454	852355	758127	APCTF
Object Code 002278 Subtotal:							\$500.00				
Cashlisting 65541 Total:							\$800.00				

Panhandle Animal Welfare Society

Florida Dept. of Environmental Protection

Date Type Reference
12/4/2007 Bill Incinerator Registra

Original Amt.
100.00

12/5/2007
Balance Due Discount
100.00
Check Amount

12153
Payment
100.00
100.00

Operating Account Incinerator Registration

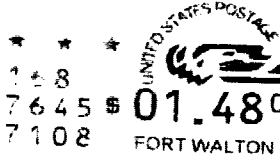
100.00

PAWS

752 Loojooy Rd

F.W.B

FL 32548



FLORIDA Dept. of Environmental Protection
Receipts

PO Box 3070

Tallahassee FL 32315-3070