FLA RECEIPT #1710375 2012 FEB 9

ANIMAL CREMATORY AIR GENERAL PERMIT RE-REGISTRATION

FECTIVED

FEB 1 0 2012

LAVASIUN OF AIR RESOURCE MANAGEMENT

Facility Identification Number (If known)

Current Permit No. 0710207-007-AG. This 2012 Re-Registrati has two (2) existing animal crematory units. This is to add o crematory unit.	
Registration Type	INTARACE
Check one: INITIAL REGISTRATION - Notification of intent to: Construct and operate a proposed new facility. Operate an existing permitted facility not currently using an air ge from an air operation permit to an air general permit). If the facility permits, such permit(s) must be surrendered by the owner or oper permit. (See "Surrender of Existing Air Operation Permit(s)" below the operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using an air operation permit of the currently permitted or using a permit of the currently permitted or using an air operation permit of the currently permitted or using a permit of the currently permit of	ty currently holds one or more air operation ator upon the effective date of this air general ow.)
RE-REGISTRATION (for facilities currently using an air general pe ☐ Continue operating the facility after expiration of the current term ☐ Continue operating the facility after a change of ownership. ☐ Make an equipment change requiring re-registration pursuant to R change not considered an administrative correction under Rule 62 Surrender of Existing Air Operation Permit(s) - For Initial Registra All existing air operation permits for this facility are hereby surrendered	ule 62-210.310(2)(e), F.A.C., or any other 2-210.310(2)(d), F.A.C.
permit; specifically permit number(s): N/A	
General Facility Information	
Facility Owner/Company Name (Name of corporation, agency, or indivious operates, controls, or supervises the facility.) Pet Angel World Services (Flowers)	
Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant Complete registration must be submitted for each.) Pet Angel World Services (•
Facility Location (Physical location of the facility, not necessarily the m Street Address: 1941 Park Meadows Drive, Suite #8 City: Fort Myers County: Lee	ailing address.) Zip Code: 33907 – 3703
Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility.)

0710207: 2012 Facility Contact

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title: Sharon Martinache, Regional Manager

Facility Contact Telephone Numbers

Telephone: **(727) 548-1456** Cell phone: **(727) 612-1445**

E-mail: sharon.martinache@petangelworldservices.com

Facility Contact Mailing Address

Organization/Firm: Pet Angel World Services (Florida) LLC

Street Address: 6225 72nd Ave. North

City: Pinellas Park County: Pinellas Zip Code: 33781

Other Contact/Representative (to serve as additional Department contact)

Name and Position Title

Print Name and Title: Mr. Lynn Robinson, P.E., Permitting Manager

Other Contact/Representative Telephone Numbers

Telephone: (813) 752-5014

Cell phone: (813) 957-8804 E-mail: Irobinson@sesfla.com Fax: (813) 752-2475

Fax: (727) 545-3141

Other Contact/Representative Representative Mailing Address

Organization/Firm: Southern Environmental Sciences, Inc.

Street Address: 1204 North Wheeler Street

City: Plant City County: FL Zip Code: 33563

0710207: 2012

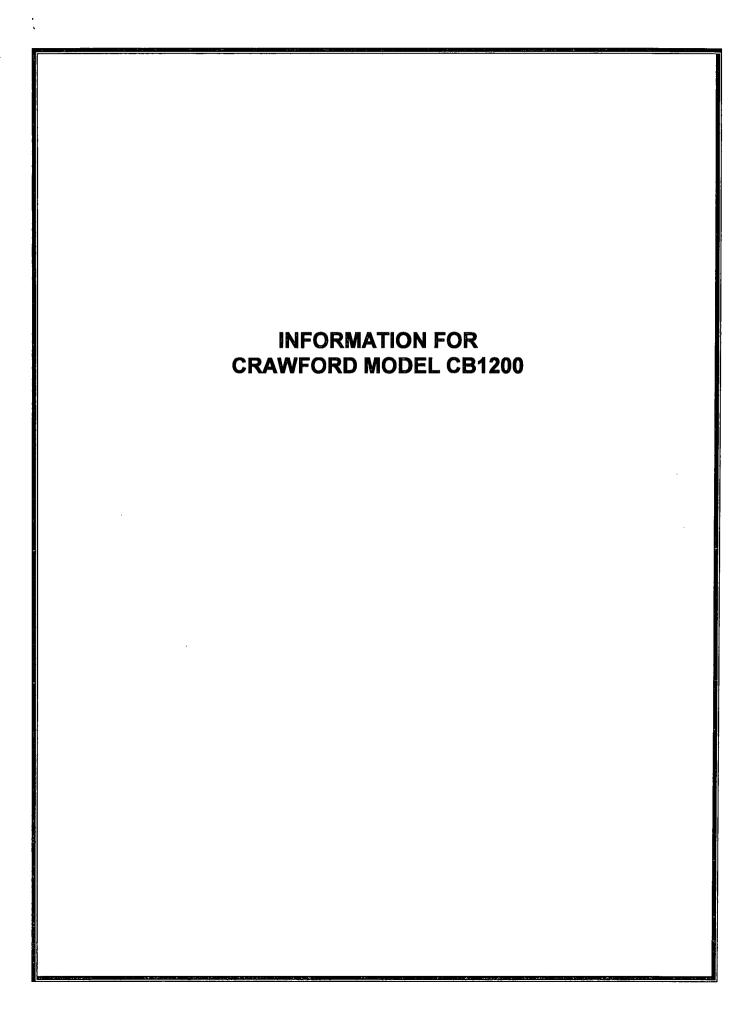
Emission Unit Details - January

Unit to be added*: Crawford Equipment & CB1200* S/0503/0133/00 300 lb/hr (1,200 lb/charg Existing units to remain:	CHILDSION CHILD CHILD	<u>,, j</u>		
Crawford Equipment & CB1200* S/0503/0133/00 300 lb/hr (1,200 lb/charg	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	RATED CAPACITY
Engineering Co.* Existing units to remain: Considered Equipment 8	Unit to be added*:			
Crowford Equipment 2		CB1200*	\$/0503/0133/00	300 lb/hr (1,200 lb/charge)
Crawford Equipment &	Existing units to remain:			
Engineering Co. C1000S 1CS92180992ULS 250 lb/hr (1,000 lb/charg	Crawford Equipment & Engineering Co.	C1000S	1CS92180992ULS	250 lb/hr (1,000 lb/charge)
B&L Cremation Systems, Inc. BLI-400/75 M 1399-1182-12 75 lb/hr (400 lb/charge)	B&L Cremation Systems, Inc.	BLI-400/75 M	1399-1182-12	75 lb/hr (400 lb/charge)

* Animal Crematory Unit to Be Added: This animal crematory unit is to be added, resulting in a total of three (3) units at the facility under Air General (AG) Permit ID No. 0710207. The Crawford Model CB1200 batch load animal crematory unit is designed to incinerate animal remains and associated material at an average rate of 300 pounds per hour (the average rate is the total weight loaded into the unit divided by the duration of the burn), with a maximum batch charge weight of 1,200 pounds. The incinerator consists of primary and secondary (afterburner) chambers each fired on propane or natural gas, with a total design heat input rate of 2.0 MMBtu/hour (one primary burner at 0.5 MMBtu/hr and one secondary burner at 1.5 MMBtu/hr). Emissions are controlled by an afterburner (secondary chamber) which maintains a minimum secondary chamber combustion zone temperature of 1,600°F prior to and during combustion of material in the primary chamber. The secondary (afterburner) chamber volume is designed to provide at least a one (1) second residence time at a gas temperature of 1,800°F. The secondary chamber temperature is continuously monitored and recorded and the unit is equipped with a stack opacity monitoring system. See attached Crawford design calculations, sketches and specifications.

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.
☐ Design calculations attached.
Registration is not for proposed new animal crematory unit(s).



CRAWFORD MODEL CB1200 SPECIFICATIONS

Model:

CB1200 (gas fired - std. / oil fire option - available)

Type:

Modular, multiple chambered, controlled air

Capacity ratings:

@ 5,500 Btu/lb. waste - 300 lb./hr.

Batch load capacity:

50 cu. ft. (1200 lbs. @ 25 lb./cu. ft. density)

Overall dimensions:

11'-0" L x 6'-10" W x 12'-0" H (to top of SCC)

Stack:

Std. 8' (mounted on top of SCC = 20' el. from grade)

Approx. system weight:

21,100 lbs.

Required fuel (NG/LPG):

2 MMBtu/hr @ 11-14" w.c. @ 1.5" header

Required electrical supply:

230/460 V, 3Ø, 60 Hz (50 Hz & alt. voltage available)

24/16 amp @ single point connection

(40/24 amp with loader option)

Primary chamber volume:

97.95 cu. ft.

Hearth Area:

24 sq. ft.

Secondary chamber volume: 68.3 cu. ft.

Primary burner capacity:

500,000 Btu/hr. (modulated control) Secondary burner capacity: 1,500,000 Btu/hr. (modulated control)

Charging/cleanout door:

49.5 in. i.d. opening (manual hinged type)

Combustion air supply:

1250 scfm (std.-5hp, 230/460 V, 3Ø)

Construction:

.250" A36 CS plate shells .250" x 3" FB reinforcement 6", 10.5# A36 channel skid frame 4" 3000°F cast refractory lining

1" 1900°F insulation

Stack:

28" od x 22" id x 48" L sections (gty. 2 std.)

10 ga. A36 CS shell 3" 2400°F LWI castable approx. weight - 200 lb./ft.



6250 Hazeltine National Drive Orlando, Florida 32822

facsimile: 407.851.2406

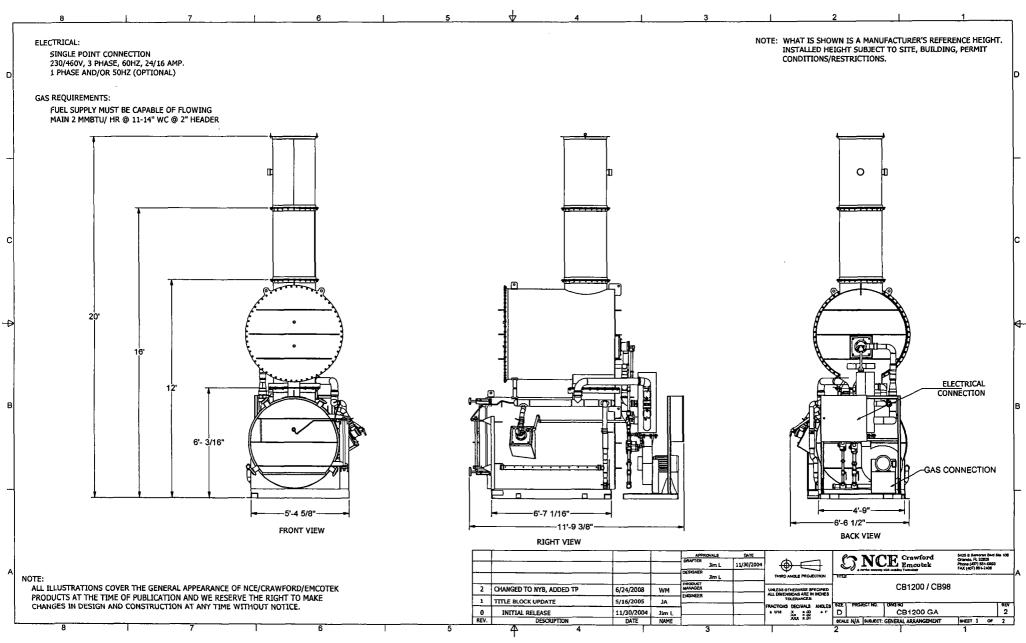
Suite 116

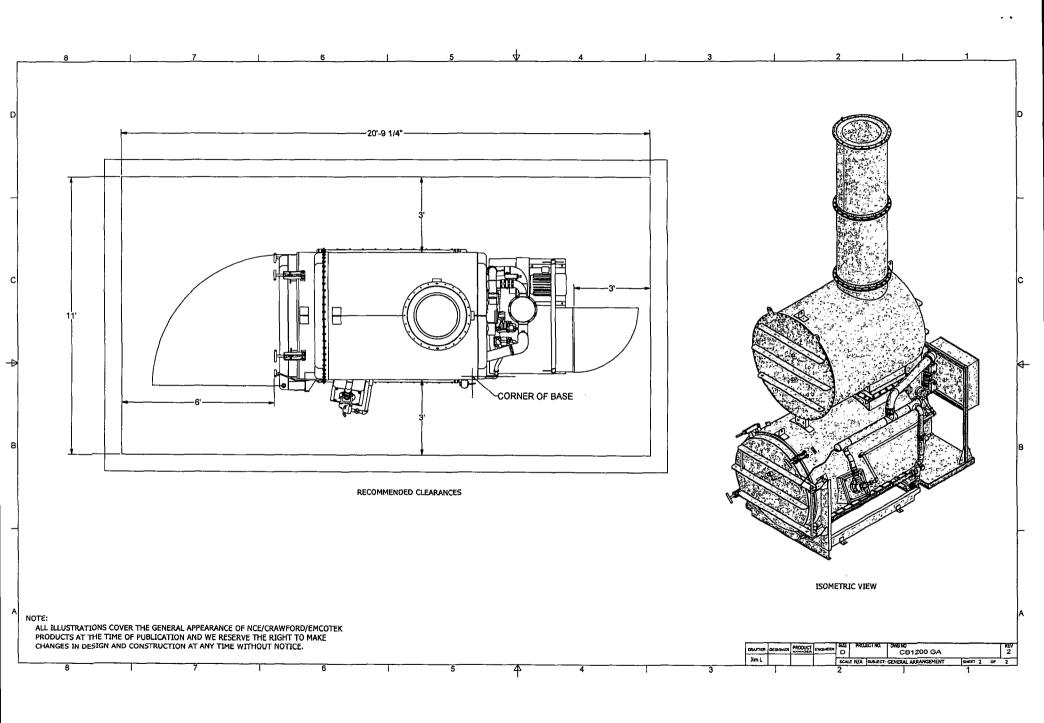
voice: 936,756.1688

sales and service: 1.800.228.0884

www.animal-cremation.com www.nce-crawford.com







					CB120	00 Design	Calculation	ons——						
					-							 		
Heat and I	Mass Balance			Basis one	Hour		Waste Type	and Descr	iption - Ge	neralities		 		
	Enter the following:			This Run		0-Trash		1-Rubbish		3-Garbage)	4-Animal		MSW
	Percent Carbon Combus	tion		95		95		95		95		95		95
	Feed Compos. %		Carbon	7		47		33		12		7		25
			Hydrogen			6		5		3		2		-
			Oxygen	6		30		26		10		6		20
			Water	82		10		25		70		82		30
			Chlorine	0		2		1		0.4		0		
			Sulfur	0.1		0.1		0.1		0.1		0.1		0.
			Nitrogen	0.4		0.2		0.2		0.2		0.4		0.5
			Ash	2.5		4.70		9.70		4.30		2.5		19.4
Stated HH	V of waste feed, Btu/lb			1000		8500		6500		2500		1000		5000
	LHV by Dulong's eq, Btu	ı/lb		630		7147		4909		1644		630		3679
	ing heat to vaporize wate		 	<u></u>				1		 		1 330	<u> </u>	1
	Density of Waste, lb/cu f		 	55		10		10		35		55		25
	Heat value of waste, Btu		<u> </u>	55000		<u></u>	1	 		30		†		T ====
	<u>, 2,0</u>		<u> </u>			Paper, carb	oard.	paper, rag	s,cartons	Food wast	es, paper	All animal	& human	Municipal
						wood-10%p		floor swee		resta/hote		tissue; lab		Waste
			 						<u> </u>				,	
							<-Typical Ra	anges->						1
	Percent carbon combust	ion		95	-		95-98%		†			†		
	Percent Excess Air		†	200			40-150% E	xcess Air (=	=140-250%	total air) fo	or solid wa	ste		
	Percent of Total Air			300			10 100 70 2	100007.111	1.0 -00 //	T TOTAL TOTAL		T		
	Feed rate Lbs per hour	 	 	300				 	-	 				
	Target Comb gas temp.	dea F	†··	1800			1700-2200	 	 	 				
	Target stack gas temp. o			1800			300-600	 	 	 	-	1	 	
	True heat loss, %		 	4		<	Losses (2-6	%) due to r	ad / cond /	conv Does	s not	 		
				·			reflect HHV					 		+
	O2 Req. for stoich comb	2.61	lbmol/hr				TOTIOGE THE	Litt dillo	1	1	Tupe.	-		
	Dry air req		lb/hr					-				 	 	
	.,	- 333	1	CO2	HCI	SO2	H2O		 	 		1	 	
	Moles from combustion		 -	1.66					 	 		+		
	Moles from evap		 	1.00	0.00	0.01	13.67			 			 	
	Interest treatment of the		 		 	<u> </u>	10.07	 	 -	 		+	 	
	Actual O2 in inlet air		lbmol/hr	7.83		<u> </u>	Humidity Inc	out.	 	 		+	 	
	Water vapor in Air		15111511111		ibs water/ lb	ns dry air		lbmol/hr	 				 -	
	Tot. dry air, lbmol/hr		37.28		IDO WATON IL			lb/hr	 	 	 	+	 	+
	Tot. dry all, ibilionii	lb/hr	1075				 	10/111	 	 		+		
	 	10/111	1073						 	 		 	 	+
	 		 	CO2	нсі	SO2	N2	O2	H2O	 		+	 	+
	Total moles before aux f	uel	 	1.66						 	 	+	 	+
	Total flue gas, wet		 		lbmol/hr	0.01		lb/hr	10.00	 	 	+	 	+
	Total flue gas, dry		 		lbmol/hr	 		lb/hr	+				 	+
	Mole Weight, wet/dry		 	25.74		 	1000	127111	 	 	 	+	 	+
	The standing wooding		 	20.74	20.01	 	 	-		 		 	 	+
	Temperature with no hea	at added	dea F	 	483	 	 	 	 	 	 	 	 	+
ļ	poratare with no nee		T .	 	400	 	 	 	 	ļ	 	+	+	
									1					

					—CB120)0 Design	Calculation	anc					1	
lf h = = 1 = =	adad is socialize the social		fuel											
n neat nei	eded is positive, then add Heat balance calculation			nd not ovail	able heat for	mothana						 	 	
 	T (w/o) fuel		deg F	io net avail	able fleat for	memane							 	
 	Ht need	573309						·					 	
	NAH			Net Avail I	eat of meth	ane at T= tar	raet temp							
	Fuel need		lbmol/hr	I TOL AVAII I	leat of mean	ario at 1- tai	ger temp						-	
	Mol O2		lbmol/hr	(includes	10% excess	air at burner	r)						 	
	Air added		ib/hr	(1070 00000	an at barrior	<u>/</u>						 	
				 						 -			1	
If heat ne	eded shows negative, then	add coo	ling air:										tt	
	Heat in actual flue gas		_ _	176867.5	btu/hr									
	Mass cooling air	··		-1265										
					_		Inlet air	Inlet air	Inlet air	Fr Humid	Fr Comb	Fr Comb	Fr Comb	
	Moles of air added (to co	ol or burn	gas)		30.02		MWwet	Moles O2	Moles N2	Mol H2O	Mol CO2	Mol H2O	Mol O2	
							28.70							
	Stack gas lb mol/hr, wet			86.60										
	Stack gas lb mol/hr, dry			63.39										
L			<u> </u>											
				CO2	HÇI		N2	O2	H2O	Total				
	Total	Moles ou	t stack	4.66		0.01				86.60			L	
		Dounda		205 24	0.00	0.60	1,489.41	176.61	417.86	2290		1	1	
L		Pounds	l	205.24									 	
		Vol % dry		7.36	0.00	0.00								
		Vol % dry Mole wt c	of flue gas,	7.36 wet	0.00 26.44	0.01	83.92	8.71						
	· .	Vol % dry Mole wt c	of flue gas,	7.36 wet 2,381	0.00	0.01 1800 1800	83.92 deg F deg F	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 se Time (68 dary cham	/60)= /39.6875)	1.713386		
	· .	Vol % dry Mole wt c Actual flu Actual flu scfm	of flue gas,	7.36 wet 2,381	0.00 26.44 at	0.01 1800 1800	83.92 deg F deg F	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
	Mass Balance: Pounds	Vol % dry Mole wt c Actual flu Actual flu scfm	of flue gas,	7.36 wet 2,381	0.00 26.44 at	0.01 1800 1800 I, Std Temp	83.92 deg F deg F	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
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	Mass Balance: Pounds	Vol % dry Mole wt c Actual flu Actual flu scfm per hour In 300	of flue gas, gas, acfm e gas acfm	7.36 wet 2,381	0.00 26.44 at at For this cel	0.01 1800 1800 1, Std Temp	83.92 deg F deg F	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
	Mass Balance: Pounds Feed Air	Vol % dry Mole wt c Actual flu Actual flu scfm per hour In 300 1951	of flue gas, gas, acfm e gas acfm	7.36 wet 2,381	0.00 26.44 at at	0.01 1800 1800 I, Std Temp	83.92 deg F deg F	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
	Mass Balance: Pounds Feed Air Fuel	Vol % dry Mole wt c Actual flu Actual flu scfm per hour in 300 1951 48	of flue gas, gas, acfm e gas acfm	7.36 wet 2,381	0.00 26.44 at at For this cel ash out flue gas	0.01 1800 1800 1, Std Temp Out 9 2290	83.92 deg F deg F	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
	Mass Balance: Pounds Feed Air	Vol % dry Mole wt c Actual flu Actual flu scfm per hour In 300 1951	of flue gas, gas, acfm e gas acfm	7.36 wet 2,381	0.00 26.44 at at For this cel	0.01 1800 1800 1, Std Temp	83.92 deg F deg F	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
	Mass Balance: Pounds Feed Air Fuel Total	Vol % dry Mole wt c Actual flu Actual flu scfm per hour in 300 1951 48 2299	of flue gas, gas, acfm e gas acfm	7.36 wet 2,381 2,381 558	0.00 26.44 at at For this cel ash out flue gas	0.01 1800 1800 1, Std Temp Out 9 2290	83.92 deg F deg F	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
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	Mass Balance: Pounds Feed Air Fuel Total Error in Mass Balance, %	Vol % dry Mole wt co Actual flu Actual flu scfm per hour in 300 1951 48 2299 6 hour	of flue gas, gas, acfm	7.36 wet 2,381 2,381 558	0.00 26.44 at at For this cel ash out flue gas	0.01 1800 1800 1, Std Temp Out 9 2290	83.92 deg F deg F	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
	Mass Balance: Pounds Feed Air Fuel Total Error in Mass Balance, % Heat Balance: BTUs per	Vol % dry Mole wt co Actual flu Actual flu scfm per hour in 300 1951 48 2299 6 hour In ########	of flue gas, gas, acfm	7.36 wet 2,381 2,381 558	O.00 26.44 at at For this cel ash out flue gas Total	0.01 1800 1800 1, Std Temp Out 9 2290 2298 Out 4.46E+03	83.92 deg F deg F == 70	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
	Mass Balance: Pounds Feed Air Fuel Total Error in Mass Balance, % Heat Balance: BTUs per Feed Fuel	Vol % dry Mole wt co Actual flu Actual flu scfm per hour in 300 1951 48 2299 6 hour In ###################################	of flue gas, gas, acfm	7.36 wet 2,381 2,381 558	0.00 26.44 at at at For this cel ash out flue gas Total Ash Flue Gas	0.01 1800 1800 1, Std Temp Out 9 2290 2298 Out 4.46E+03 1.18E+06	83.92 deg F deg F == 70	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
	Mass Balance: Pounds Feed Air Fuel Total Error in Mass Balance, % Heat Balance: BTUs per Feed Fuel Air(h2o)	Vol % dry Mole wt co Actual flu Actual flu scfm per hour in 300 1951 48 2299 6 hour In ###################################	of flue gas,	7.36 wet 2,381 2,381 558	O.00 26.44 at at at at ash out flue gas Total Ash Flue Gas Loss	0.01 1800 1800 1, Std Temp Out 9 2298 2298 Out 4.46E+03 1.18E+06 4.93E+04	83.92 deg F deg F == 70	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
	Mass Balance: Pounds Feed Air Fuel Total Error in Mass Balance, % Heat Balance: BTUs per Feed Fuel	Vol % dry Mole wt co Actual flu Actual flu scfm per hour in 300 1951 48 2299 6 hour In ###################################	of flue gas,	7.36 wet 2,381 2,381 558	0.00 26.44 at at at For this cel ash out flue gas Total Ash Flue Gas	0.01 1800 1800 1, Std Temp Out 9 2290 2298 Out 4.46E+03 1.18E+06	83.92 deg F deg F == 70	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
	Mass Balance: Pounds Feed Air Fuel Total Error in Mass Balance, % Heat Balance: BTUs per Feed Fuel Air(h2o) Total	Vol % dry Mole wt co Actual flu Actual flu scfm per hour in 300 1951 48 2299 6 hour In ###################################	of flue gas,	7.36 wet 2,381 2,381 558	O.00 26.44 at at at For this cel ash out flue gas Total Ash Flue Gas Loss Total	0.01 1800 1800 1, Std Temp Out 9 2298 2298 Out 4.46E+03 1.18E+06 4.93E+04	83.92 deg F deg F == 70	8.71 Actual Flu Theoretica	e Gas / Se	cond (2381 ce Time (68	/60)= /39.6875)	1.713386		
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Southern Environmental Sciences, Inc.

1204 North Wheeler Street
Plant City, Florida 33563-2354 (813) 752-5014 Fax (813) 752-2475

January 30, 2012

Ms. Sharon Martinache, Regional Manager Pet Angel World Memorial Center 6225 72nd Ave. North Pinellas Park, FL 33781 RECEIVED
FEB 10 2012
RESCURCE ALLOGEMENT

ENVIRONMENTAL PROTECTI

2012 FEB -9 AM 8: 31

Re:

Animal Crematory Air General Permit Re-Registration:

Adding One (1) Animal Crematory Unit to Facility with Two (2) Existing Units

Crawford Model CB1200 Animal Retort FDEP ID No. 0710207 – Fort Myers Facility

Dear Ms. Martinache:

Attached for your use are two (2) "unbound" (stapled) copies and two (2) spiral-bound copies (with regulations) of the Air General (AG) Permit re-registration information for registering the planned addition of the Crawford Model CB1200 animal crematory unit to your Fort Myers facility.

Please send <u>one (1) "unbound" (stapled) copy</u>, along with a fee check payable to "Florida DEP" in the amount of \$100.00, by overnight delivery, with delivery tracking, to:

Florida Department of Environmental Protection Attn: Receipts 3800 Commonwealth Blvd. Mail Station 77 Tallahassee, Florida 32399

The two (2) spiral-bound copies contain your air general permit conditions and procedures which are defined in the FDEP rules. One bound copy should be retained onsite with the crematory operators. The other bound copy is for your records.

The new registration will become effective 30 days after it is received by FDEP-Tallahassee and is valid for five (5) years.

If you have any questions concerning the permit registration or we can be of any further assistance to you please do not hesitate to call.

Very Truly Yours,

SOUTHERN ENVIRONMENTAL SCIENCES, INC.

Lynn Robinson, P.E. Permitting Manager