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COVANTA
ENERGY

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JUL 13 2012
DIVISION OF AIR
RESOURCE MANAGEMENT

July 12, 2012

Mr. Jeffery F. Koerner, Air Program Administrator
FDEP, Division of Air Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

SUBJECT: Covanta Lake II, Inc.
Leachate Injection Permit 069-0046-011-AV Application
Title V Permit 069-0046-010-AV Revisions Application
Project Nos.: 0690046-012-AC
0690046-013-AV

Dear Mr. Koerner:

In accordance with Permit 069-0046-011-AV specific condition #9 of Section 3, attached please find an updated version of the permit application and a Summary Report, which constitute the application for an air construction permit. Also, specific condition #7 of Section 2 requires a Title V Air operation permit revision application be submitted no later than 180 days after commencing operation. Following successful completion of the stack tests, the facility commenced operation with leachate on 2/11/12.

During the 2012 Legislative Session, the Florida Legislature amended Section 403.707, Florida Statutes, to allow waste-to-energy facilities to maximize acceptance and processing of non-hazardous solid and liquid waste (HB 503). To implement this legislative change, Covanta Lake requests that the Department delete Title V permit conditions **A.5**(g) and **A42**.c limiting non-MSW material received as segregated loads and burned at the facility to5% Covanta Lake also requests that the Department replace Title V permit condition **A.5**(h) with one that authorizes acceptance and processing of non-hazardous solid and liquid waste.

Please do not hesitate to contact Viet Ta, Environmental Engineer, at (727) 919-7671.

Sincerely,

Gary Main, Facility Manager

Copy: J. Gorrie, CPI
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SUMMARY REPORT

On 12/22/2011, the Department of Environmental Protection issued Covanta Lake II, Inc. Construction Permit No. 069-0046-011-AV, which authorizes the temporary injection of landfill leachate into the spray dryer absorbers (scrubbers) that are part of the air pollution control equipment of the two mass-burn municipal waste combustors (Units 1 and 2) at the Lake County Resource Recovery Facility.

Specific condition #9 of the permit stipulates that: "To permanently inject leachate into Units 1 and 2 scrubbers, the permittee shall submit an application for an air construction permit consisting of an updated version of the previous application and a summary report. The summary report shall include: the actual schedule and overall description of the temporary leachate injection project; any operational issues encountered during the course of the project; a summary of historical stack tests conducted before the temporary leachate injection project compared with stack test(s) conducted while practicing leachate injection; an updated estimate of net emissions increases related to permanent leachate injection; and any updated design features, including permanent equipment and new construction activities."

Therefore, this report is organized into the following sections:

1. Temporary leachate injection project schedule.
2. Temporary leachate injection description.
3. Operational issues.
4. Stack test results comparison.
5. Updated estimate of net emissions increases.
6. Updated design features, including permanent equipment and new construction activities.

1. TEMPORARY LEACHATE INJECTION PROJECT SCHEDULE

Date	Activity
10/22/10	Covanta met with Lake County to discuss the possibility of processing landfill leachate at the Resource Recovery Facility.
1/31/2011	Lake County provided Covanta with leachate analytical data.
3/1/2011	Covanta reviewed liquid injection processes being conducted at other facilities.
3/22/2011	Covanta issued Request for Proposal to prospective consultant firms for the preparation of the air construction permit application.
3/25/2011	Covanta met with Trinity Consultants to discuss the air construction permit application requirements.
7/29/2011	Trinity Consultants submitted the air construction permit application for the injection of leachate into the MWCs' furnaces.
8/26/2011	DEP issued Request for Additional Information in connection with the leachate injection air construction permit application.
9/22/2011	After further internal discussions, Covanta decided the injection of leachate into the MWCs' scrubbers would be more appropriate. In order to accommodate the facility's water balance, the RO reject stream would be injected into the furnace.
11/14/2011	Trinity Consultants submitted the revised air construction permit application for the injection of leachate into the scrubbers and RO reject into the furnaces.
11/18/2011	DEP representatives and Lake County representatives came to the facility to discuss the changes to the project's concept and to make a detail observation of the facility's operation.
12/2/2011	DEP sent out Public Notice of Intent to Issue Air Permit.
12/7/2011	The Orlando Sentinel published the Public Notice in the newspaper.
12/12/2011	Covanta submitted to DEP the Affidavit of Publication.
12/14/2011	Covanta submitted to DEP the Source Test Plan.
12/22/2011	DEP issued Covanta a Minor Air Construction Permit for a temporary leachate injection project.
1/5/12	Covanta completed the installation of the temporary leachate injection system.
1/13/12	Covanta began checking the temporary leachate injection system operation with landfill leachate.
1/17, 18, 23, and 24/12	Covanta conducted the annual compliance emissions testing. Covanta ceased leachate processing until test results are available.
2/10/12	Covanta received the emissions testing results showing emissions of all tested parameters below permit limits.
2/14/12	Covanta resumed the temporary leachate injection system operation with landfill leachate.
3/2/12	Covanta submitted the annual compliance emissions test report to DEP.

3/18/12	Covanta stopped the temporary leachate injection system operation with landfill leachate due to lack of delivery.
6/7/12	Covanta resumed the temporary leachate injection system operation with landfill leachate.

2. TEMPORARY LEACHATE INJECTION DESCRIPTION

A. RECEIVING: Landfill leachate is delivered to the facility in bulk liquid tanker vehicles. The tanker trucks typically deliver up to 6,000 gallons per trip, 3 trips per day, and 6 days per week. The leachate is pumped into an 18,000 gallon double-walled mobile storage tank. The tank is located on the paved ground surface adjacent to the ash residue transfer belt inclined enclosure. A 12 inch high curb is built around the tank to contain minor spills. A portable catch basin is placed under the truck hose connection during truck unloading to collect incidental spillage. Spilled leachate is collected and disposed in the wastewater sump. Any leachate spilled outside of the containment will be absorbed by chemically-treated absorbent booms and pads. The spent booms and pads will be disposed in the refuse pit for incineration. In the event the facility is not able to process leachate, the landfill employees will be notified to divert the leachate to an alternative disposal location.

B. PROCESSING: Combustion gas is pulled through the boiler furnace, evaporator, superheater, economizer, scrubber and baghouse by the ID fan. The flue gas enters the scrubber at a temperature of approximately 450 °F. Since the flue gas temperature entering the baghouse should to be reduced to less than 315 °F, the temperature reduction is accomplished across the scrubber. This is done by spraying a lime slurry/water mixture into the scrubber. The purpose of the lime slurry is to neutralize acid gases such as SO_2 and HCl. The purpose of the water is to reduce the flue gas temperature. The excess heat in the flue gas evaporates the water component of the slurry/water mixture. The solid component of the slurry/water mixture is collected in the bottom of the scrubber and is transferred to the ash discharger. Instead of using groundwater in the scrubber, the excess heat in the flue gas can be beneficially utilized to evaporate some types of wastewater such as cooling tower blowdown, water treatment residuals, and other liquid wastes (such as landfill leachate).

Leachate is transferred from the storage tank to the scrubbers' head tanks via a pump. A check valve is internal to the pump for backflow prevention. A strainer is installed downstream of the pump to remove large solids. The quantity of leachate transferred to each head tank is monitored by a flow meter. In order to maintain supply, each head tank is equipped with a level controller tied to a control valve. There is a continuous recirculation loop to keep the system balanced. The loop returns excess leachate back to the storage tank. Leachate from each head tank is delivered to the lime slurry injection pipeline to feed each atomizer. The atomizer sprays the leachate/slurry mixture into the scrubber. The quantity of leachate delivered to the scrubber is regulated by the scrubber outlet temperature controller to provide outlet temperature of approximately 285 °F.

3. OPERATIONAL ISSUES

Following the installation of the storage tank, pumps, valves, piping and fittings, the system was tested with water. Minor issues related to installation were corrected prior to the introduction of leachate into the system. There were no observable issues with the boilers and their air pollution control systems during the test run with water. To date, the leachate injection system has been operated without any observable issues. The system was operated during the annual air compliance emissions tests. The test results showed compliance with all parameters. The facility conducted an inspection of the plant equipment during the May 2012 scheduled semi-annual outage. The inspection did not indicate any impacts to the equipment due to leachate processing.

4. STACK TEST RESULTS COMPARISON

The facility operated the leachate injection system during the 2012 annual compliance stack test. Leachate was processed in both MWC units. There were no observable increases in air emissions of any pollutants.

Table 1: Summary Report - Stack Test Results Comparison: shows stack test results for the 5 years 2007-2011 period as well as the year 2012.

5. UPDATED ESTIMATE OF NET EMISSIONS INCREASES

5.1 Stack Test Data. Since there were no observable increases in air emissions of any pollutants during the 2012 annual compliance stack tests, an estimate of net emissions increases cannot be made. In other words, there are no expected net emissions increases.

5.2 CEM Data. Provided as Attachment X is a set of 8 Tables on the CEMS pollutants (opacity, CO, SO2, and NOx). These Tables show ave, max, and min data during leachate injection and afterward in which leachate was not injected. Provided as Attachment XX is a statistical presentation of the emissions recorded both while processing leachate (test condition) and while not processing leachate (baseline condition). As can be seen in the histogram distributions of Attachment XX, the CEM data exhibits a classical one-tailed non-normal distribution commonly observed in environmental statistical data. With respect to NOx and SO2, no statistically-significant difference is discernable between the baseline condition and the test condition. With respect to CO, a slight skewing to the right of the curve is discernable, however, given that the leachate was introduced into the scrubber vessel, it is not believed that the leachate processing is responsible for this observed

effect. CO emissions are a function of combustion, and the introduction of landfill leachate into the air pollution control system (scrubbers) should have no impact on them. A multi-variant analysis is necessary to better understand why the CO emissions are different between the baseline and test conditions, but the delta is so slight (delta of mean on Unit 1 = 2 ppm, delta of mean on Unit 2 = 3 ppm), that the presence of a statistically-significant difference is arguable at best.

In conclusion, both the stack test data and the CEM data demonstrate that there is no net emissions increase from either MWC unit while processing leachate. Since there were no observable increases in air emissions of any pollutants during the 2012 annual compliance stack tests, an estimate of net emissions increases cannot be made. In other words, there were no observed net emissions increases.

6. UPDATED DESIGN FEATURES, INCLUDING PERMANENT EQUIPMENT AND NEW CONSTRUCTION ACTIVITIES

At this time, there are no planned changes to the current system design. As the system ages, the following changes may be made to the system:

- The double walled tank will be replaced with a single walled tank. The tank will be placed inside a concrete containment.
- The leachate air driven pump will be replaced with an electric driven pump.
- The flexible hoses will be replaced with hard pipings.

Table 1: Summary Report - Stack Test Results Comparison

Covanta Lake 2012 Landfill Leachate permit application
Facility ID 0690046, EU ID 001 and 002

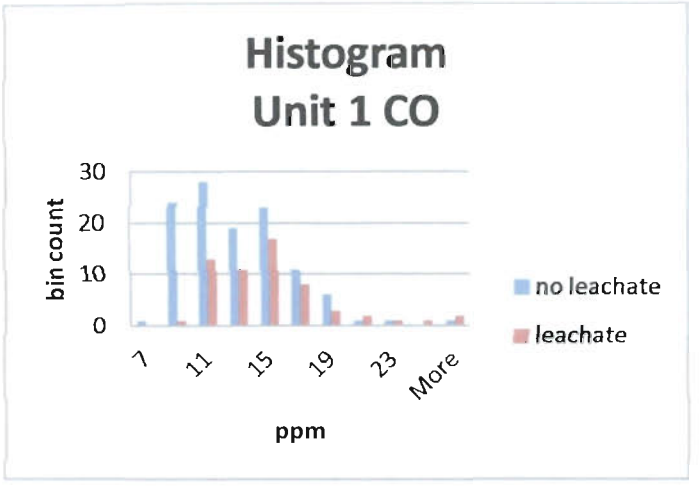
								Statistical			
MWC #1	Limit terms	Limit	2007	2008	2009	2010	2011	Maximum	Minimum	Mean	Standard Dev	2012
PM	mg/dscm	25	16.7	4.2	0.3	0.4	0.3	16.7	0.3	4.38	7.09	0.9
Cd	mg/dscm	0.035	0.010	0.003	0.0002	0.0002	0.0003	0.0095	0.0002	0.0026	0.004	0.0001
Pb	mg/dscm	0.40	0.07	0.02	0.005	0.002	0.002	0.1	0.0	0.02	0.03	0.002
Hg	mg/dscm	0.050	0.009	0.007	0.007	0.008	0.001	0.0	0.0	0.01	0.00	0.002
Dioxins/Furans	ng/dscm	30	11.20	Note	8.33	6.06	1.00	11.2	1.0	6.65	4.31	Note
HCl	ppm	29	17	8	13	12	8	17.0	8.0	11.62	3.73	6
Opacity	%	0	0	0	0	0	0	0.0	0.0	0	0.00	0

MWC #2	Limit terms	Limit	2007	2008	2009	2010	2011					2012
PM	mg/dscm	25	3.4	2.7	0.2	0.3	1.0	3.4	0.2	1.52	1.45	0.8
Cd	mg/dscm	0.035	0.002	0.003	0.0002	0.0006	0.0007	0.0030	0.0002	0.0013	0.0012	0.0002
Pb	mg/dscm	0.40	0.01	0.03	0.001	0.006	0.005	0.030	0.001	0.010	0.011	0.002
Hg	mg/dscm	0.050	0.005	0.003	0.010	0.019	0.017	0.0	0.0	0.01	0.01	0.002
Dioxins/Furans	ng/dscm	30	Note	6.07	4.54	6.97	Note	6.97	4.54	5.86	1.23	2.48
HCl	ppm	29	8	6	11	14	5	14	5	9	3.70	4
Opacity	%	0	0	0	0	0	0	0	0	0	0	0

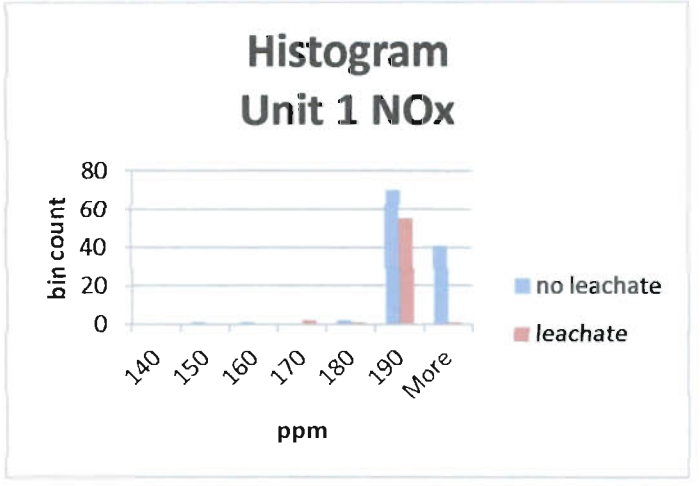
** Note: This unit was not tested due to reduced testing exemption.

(1) Test conducted on February 1, 2008 result was 34.
(2) Test conducted on February 19 and 20, 2008

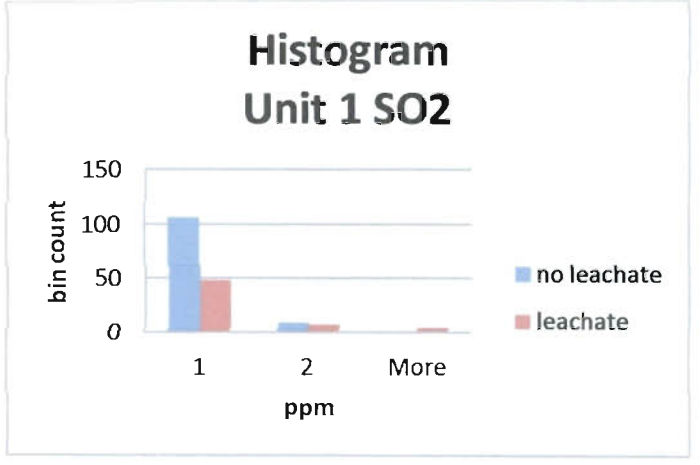
Attachment XX – Statistical Presentation of CEM Data



CO (ppm @ 7% O2)	no leachate	leachate
Mean	12	14
Std. Dev.	3.5	4.1

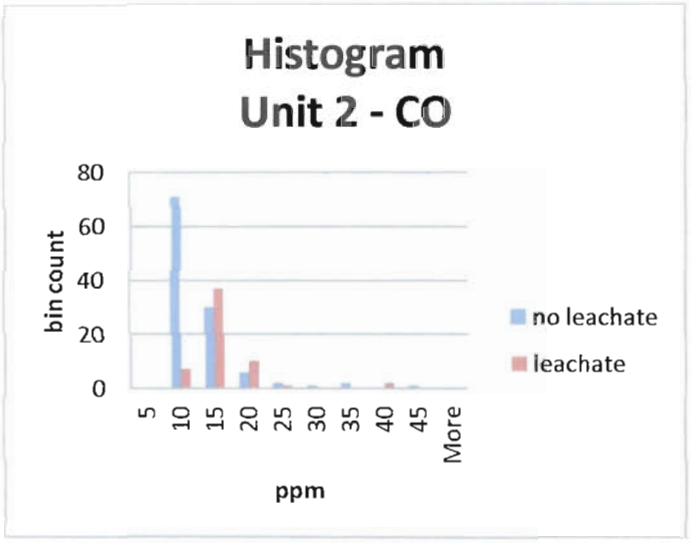


NOx (ppm @ 7% O2)	no leachate	leachate
Mean	183	182
Std. Dev.	6.4	3.7

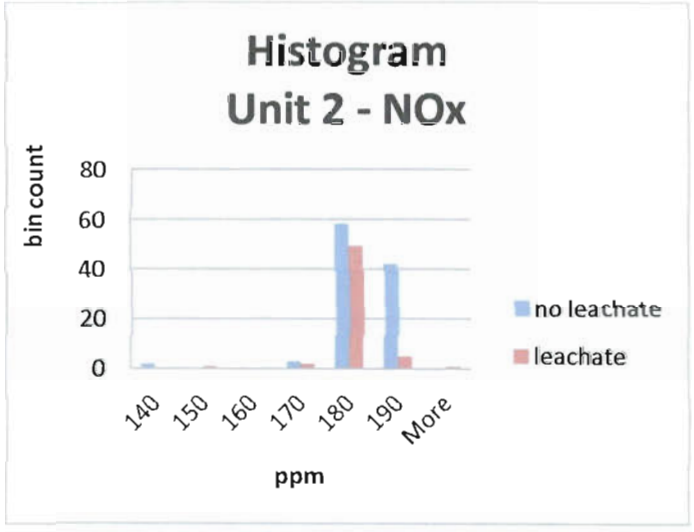


SO2 (ppm @ 7% O2)	no leachate	leachate
Mean	1	1
Std. Dev.	0.3	0.6

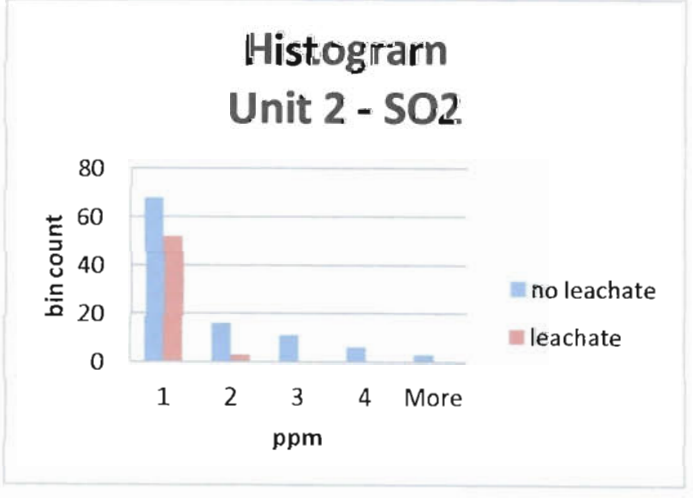
Attachment XX – Statistical Presentation of CEM Data



CO (ppm @ 7% O2)	no leachate	leachate
Mean	10	13
Std. Dev.	5.4	5.2



NOx (ppm @ 7% O2)	no leachate	leachate
Mean	179	178
Std. Dev.	9.4	5.9



SO2 (ppm @ 7% O2)	no leachate	leachate
Mean	1	1
Std. Dev.	1.1	0.2

Opacity, CO, SO_2, and NOx CEMS Data

Unit 1

Covanta Lake Opacity data U1-6 MIN CEMS POLL - U1 Opacity

Prior to leachate (%)		During leachate (%)		After leachate (%)	
11/1/2011	1	1/15/2012	0	3/20/2012	0
11/2/2011	1	1/16/2012	0	3/21/2012	1
11/3/2011	1	1/17/2012	1	3/22/2012	0
11/4/2011	1	1/18/2012	1	3/23/2012	0
11/5/2011	1	1/19/2012	1	3/24/2012	0
11/6/2011	1	1/20/2012	1	3/25/2012	0
11/7/2011	1	1/21/2012	1	3/26/2012	0
11/8/2011	1	1/22/2012	1	3/27/2012	0
11/9/2011	0	1/23/2012	1	3/28/2012	1
11/10/2011	1	1/24/2012	1	3/29/2012	0
11/11/2011	0	1/25/2012	1	3/30/2012	0
11/12/2011	0	1/26/2012	1	3/31/2012	0
11/13/2011	1	1/27/2012	1	4/1/2012	0
11/14/2011	1	1/28/2012	1	4/2/2012	0
11/15/2011	1	1/29/2012	1	4/3/2012	0
11/16/2011	1	1/30/2012	0	4/4/2012	0
11/17/2011	1	1/31/2012	0	4/5/2012	0
11/18/2011	1	2/1/2012	0	4/6/2012	0
11/19/2011	1	2/2/2012	0	4/7/2012	0
11/20/2011	0	2/3/2012	0	4/8/2012	0
11/21/2011	1	2/4/2012	0	4/9/2012	0
11/22/2011	1	2/5/2012	0	4/10/2012	0
11/23/2011	1	2/6/2012	1	4/11/2012	0
11/24/2011	1	2/7/2012	1	4/12/2012	0
11/25/2011	0	2/8/2012	0	4/13/2012	0
11/26/2011	0	2/9/2012	0	4/14/2012	1
11/27/2011	0	2/10/2012	1	4/15/2012	0
11/28/2011	0	2/11/2012	0	4/16/2012	0
11/29/2011	0	2/12/2012	0	4/17/2012	0
11/30/2011	0	2/13/2012	0	4/18/2012	0
12/1/2011	0	2/14/2012	0	4/19/2012	0
12/2/2011	0	2/15/2012	0	4/20/2012	1
12/3/2011	0	2/16/2012	0	4/21/2012	1
12/4/2011	0	2/17/2012	0	4/22/2012	1
12/5/2011	0	2/18/2012	1	4/23/2012	0
12/6/2011	0	2/19/2012	0	4/24/2012	0
12/7/2011	0	2/20/2012	0	4/25/2012	0
12/8/2011	0	2/21/2012	0	4/26/2012	0
12/9/2011	0	2/22/2012	1	4/27/2012	0
12/10/2011	0	2/23/2012	0	4/28/2012	0
12/11/2011	0	2/24/2012	0	4/29/2012	0
12/12/2011	0	2/25/2012	0	4/30/2012	1
12/13/2011	0	2/26/2012	1	5/1/2012	0
12/14/2011	0	2/27/2012	1	5/2/2012	0
12/15/2011	0	2/28/2012	1	5/3/2012	0
12/16/2011	0	2/29/2012	1	5/4/2012	0
12/17/2011	0	3/1/2012	1	5/5/2012	0
12/18/2011	0	3/2/2012	0	5/6/2012	0

12/19/2011	0	3/3/2012	1	5/7/2012	1
12/20/2011	0	3/4/2012	0	5/8/2012	0
12/21/2011	0	3/5/2012	0	5/9/2012	0
12/22/2011	0	3/6/2012	0	5/10/2012	0
12/23/2011	0	3/7/2012	0	5/11/2012	0
12/24/2011	0	3/8/2012	0	5/12/2012	0
12/25/2011	0	3/9/2012	0	5/13/2012	1
12/26/2011	0	3/10/2012	1	5/14/2012	1
12/27/2011	0	3/11/2012	1	5/15/2012	1
12/28/2011	0	3/12/2012	0	5/16/2012	2
12/29/2011	0	3/13/2012	0	5/17/2012	1
12/30/2011	0	3/14/2012	0	5/18/2012	1
12/31/2011	0	3/15/2012	1	5/19/2012	1
				5/20/2012	1
Average	0.3		0.4		0.3
Minimum	0		0		0
Maximum	1		1		2

Covanta Lake SO2 data U1-24 HOUR DATA - SO2scG @7%

Prior to leachate (ppm)		During leachate (ppm)		After leachate (ppm)	
11/1/2011	2	1/15/2012	2	3/20/2012	1
11/2/2011	2	1/16/2012	2	3/21/2012	1
11/3/2011	1	1/17/2012	1	3/22/2012	1
11/4/2011	2	1/18/2012	1	3/23/2012	1
11/5/2011	1	1/19/2012	1	3/24/2012	1
11/6/2011	1	1/20/2012	1	3/25/2012	1
11/7/2011	1	1/21/2012	1	3/26/2012	1
11/8/2011	1	1/22/2012	1	3/27/2012	1
11/9/2011	1	1/23/2012	1	3/28/2012	1
11/10/2011	1	1/24/2012	1	3/29/2012	1
11/11/2011	1	1/25/2012	1	3/30/2012	1
11/12/2011	1	1/26/2012	1	3/31/2012	1
11/13/2011	1	1/27/2012	1	4/1/2012	1
11/14/2011	2	1/28/2012	1	4/2/2012	1
11/16/2011	1	1/29/2012	1	4/3/2012	1
11/17/2011	1	1/30/2012	2	4/4/2012	1
11/18/2011	1	1/31/2012	1	4/5/2012	1
11/19/2011	1	2/1/2012	1	4/6/2012	1
11/20/2011	1	2/2/2012	1	4/7/2012	1
11/21/2011	1	2/3/2012	1	4/8/2012	1
11/22/2011	1	2/4/2012	1	4/9/2012	1
11/23/2011	1	2/5/2012	1	4/10/2012	1
11/24/2011	1	2/6/2012	1	4/11/2012	1
11/25/2011	1	2/8/2012	1	4/12/2012	1
11/26/2011	1	2/9/2012	1	4/13/2012	1
11/27/2011	1	2/11/2012	1	4/14/2012	2
11/28/2011	1	2/12/2012	1	4/15/2012	2
11/29/2011	1	2/13/2012	1	4/16/2012	1
11/30/2011	1	2/14/2012	1	4/17/2012	1
12/1/2011	2	2/15/2012	1	4/18/2012	1
12/2/2011	1	2/16/2012	1	4/19/2012	1
12/3/2011	1	2/17/2012	1	4/20/2012	1
12/4/2011	1	2/18/2012	1	4/21/2012	1
12/5/2011	1	2/19/2012	1	4/22/2012	1
12/6/2011	1	2/20/2012	3	4/23/2012	1
12/7/2011	1	2/21/2012	1	4/24/2012	1
12/8/2011	1	2/22/2012	1	4/25/2012	1
12/9/2011	1	2/23/2012	1	4/26/2012	1
12/10/2011	1	2/24/2012	1	4/27/2012	1
12/11/2011	1	2/25/2012	1	4/28/2012	1
12/12/2011	1	2/26/2012	3	4/29/2012	1
12/13/2011	1	2/27/2012	3	4/30/2012	1
12/14/2011	1	2/28/2012	1	5/1/2012	1

12/15/2011	1	2/29/2012	1	5/2/2012	1
12/16/2011	1	3/1/2012	1	5/3/2012	1
12/17/2011	1	3/2/2012	1	5/4/2012	1
12/18/2011	1	3/3/2012	1	5/5/2012	1
12/19/2011	1	3/4/2012	2	5/6/2012	1
12/20/2011	1	3/5/2012	3	5/7/2012	1
12/21/2011	1	3/6/2012	2	5/8/2012	1
12/22/2011	1	3/7/2012	1	5/9/2012	1
12/23/2011	2	3/8/2012	1	5/10/2012	1
12/24/2011	1	3/9/2012	1	5/11/2012	1
12/25/2011	1	3/10/2012	1	5/12/2012	1
12/26/2011	1	3/11/2012	1	5/13/2012	1
12/27/2011	1	3/12/2012	2		
12/28/2011	2	3/13/2012	2		
12/29/2011	1	3/14/2012	1		
12/30/2011	1	3/15/2012	1		
12/31/2011	1				
Average	1		1		1
Minimum	1		1		1
Maximum	2		3		2

Covanta Lake CO data U1-4 HR BLOCK DATA - COcSel 4HR

Prior to leachate (ppm)		During leachate (ppm)		After leachate (ppm)	
11/1/2011	27	1/15/2012	14	3/20/2012	14
11/2/2011	17	1/16/2012	14	3/21/2012	15
11/3/2011	18	1/17/2012	13	3/22/2012	12
11/4/2011	19	1/18/2012	10	3/23/2012	13
11/5/2011	18	1/19/2012	11	3/24/2012	16
11/6/2011	17	1/20/2012	10	3/25/2012	15
11/7/2011	20	1/21/2012	11	3/26/2012	16
11/8/2011	15	1/22/2012	9	3/27/2012	16
11/9/2011	14	1/23/2012	11	3/28/2012	16
11/10/2011	15	1/24/2012	11	3/29/2012	14
11/11/2011	14	1/25/2012	12	3/30/2012	15
11/12/2011	12	1/26/2012	11	3/31/2012	13
11/13/2011	11	1/27/2012	12	4/1/2012	12
11/14/2011	15	1/28/2012	12	4/2/2012	13
11/16/2011	12	1/29/2012	12	4/3/2012	13
11/17/2011	11	1/30/2012	12	4/4/2012	13
11/18/2011	11	1/31/2012	11	4/5/2012	11
11/19/2011	10	2/1/2012	10	4/6/2012	12
11/20/2011	8	2/2/2012	11	4/7/2012	14
11/21/2011	9	2/3/2012	12	4/8/2012	12
11/22/2011	9	2/4/2012	11	4/9/2012	15
11/23/2011	9	2/5/2012	10	4/10/2012	17
11/24/2011	9	2/6/2012	14	4/11/2012	14
11/25/2011	9	2/8/2012	30	4/12/2012	18
11/26/2011	9	2/9/2012	27	4/13/2012	14
11/27/2011	7	2/11/2012	25	4/14/2012	15
11/28/2011	10	2/12/2012	17	4/15/2012	15
11/29/2011	10	2/13/2012	16	4/16/2012	11
11/30/2011	9	2/14/2012	16	4/17/2012	11
12/1/2011	12	2/15/2012	14	4/18/2012	14
12/2/2011	13	2/16/2012	13	4/19/2012	10
12/3/2011	11	2/17/2012	15	4/20/2012	13
12/4/2011	9	2/18/2012	14	4/21/2012	12
12/5/2011	9	2/19/2012	13	4/22/2012	15
12/6/2011	9	2/20/2012	13	4/23/2012	12
12/7/2011	9	2/21/2012	14	4/24/2012	14
12/8/2011	10	2/22/2012	14	4/25/2012	12
12/9/2011	10	2/23/2012	14	4/26/2012	12
12/10/2011	10	2/24/2012	20	4/27/2012	11
12/11/2011	8	2/25/2012	18	4/28/2012	11
12/12/2011	8	2/26/2012	15	4/29/2012	11
12/13/2011	9	2/27/2012	14	4/30/2012	17
12/14/2011	9	2/28/2012	15	5/1/2012	15

12/15/2011	10	2/29/2012	13	5/2/2012	16
12/16/2011	10	3/1/2012	14	5/3/2012	17
12/17/2011	9	3/2/2012	16	5/4/2012	17
12/18/2011	10	3/3/2012	15	5/5/2012	22
12/19/2011	10	3/4/2012	15	5/6/2012	19
12/20/2011	11	3/5/2012	17	5/7/2012	19
12/21/2011	11	3/6/2012	17	5/8/2012	15
12/22/2011	10	3/7/2012	16	5/9/2012	8
12/23/2011	10	3/8/2012	18	5/10/2012	11
12/24/2011	9	3/9/2012	19	5/11/2012	13
12/25/2011	8	3/10/2012	22	5/12/2012	14
12/26/2011	8	3/11/2012	14	5/13/2012	15
12/27/2011	8	3/12/2012	17		
12/28/2011	9	3/13/2012	20		
12/29/2011	10	3/14/2012	11		
12/30/2011	9	3/15/2012	14		
12/31/2011	11				
Average	11		15		14
Minimum	7		9		8
Maximum	27		30		22

Covanta Lake NOx data U1-24 HOUR DATA - NOXsc7% DY

Prior to leachate	(ppm)	During leachate	(ppm)	After leachate	(ppm)
11/1/2011	181	1/15/2012	182	3/20/2012	182
11/2/2011	182	1/16/2012	182	3/21/2012	182
11/3/2011	182	1/17/2012	182	3/22/2012	183
11/4/2011	182	1/18/2012	182	3/23/2012	182
11/5/2011	182	1/19/2012	182	3/24/2012	182
11/6/2011	182	1/20/2012	183	3/25/2012	181
11/7/2011	181	1/21/2012	182	3/26/2012	182
11/8/2011	181	1/22/2012	182	3/27/2012	188
11/9/2011	181	1/23/2012	182	3/28/2012	192
11/10/2011	182	1/24/2012	182	3/29/2012	194
11/11/2011	181	1/25/2012	182	3/30/2012	191
11/12/2011	182	1/26/2012	182	3/31/2012	192
11/13/2011	182	1/27/2012	182	4/1/2012	192
11/14/2011	146	1/28/2012	182	4/2/2012	189
11/16/2011	182	1/29/2012	182	4/3/2012	192
11/17/2011	182	1/30/2012	183	4/4/2012	192
11/18/2011	182	1/31/2012	182	4/5/2012	192
11/19/2011	183	2/1/2012	181	4/6/2012	192
11/20/2011	183	2/2/2012	182	4/7/2012	192
11/21/2011	182	2/3/2012	181	4/8/2012	192
11/22/2011	183	2/4/2012	182	4/9/2012	192
11/23/2011	183	2/5/2012	182	4/10/2012	192
11/24/2011	182	2/6/2012	162	4/11/2012	192
11/25/2011	183	2/8/2012	181	4/12/2012	191
11/26/2011	186	2/9/2012	167	4/13/2012	159
11/27/2011	188	2/11/2012	182	4/14/2012	191
11/28/2011	185	2/12/2012	183	4/15/2012	191
11/29/2011	182	2/13/2012	182	4/16/2012	192
11/30/2011	182	2/14/2012	182	4/17/2012	191
12/1/2011	182	2/15/2012	182	4/18/2012	189
12/2/2011	181	2/16/2012	183	4/19/2012	193
12/3/2011	182	2/17/2012	183	4/20/2012	192
12/4/2011	183	2/18/2012	183	4/21/2012	191
12/5/2011	182	2/19/2012	181	4/22/2012	192
12/6/2011	183	2/20/2012	182	4/23/2012	192
12/7/2011	182	2/21/2012	182	4/24/2012	192
12/8/2011	183	2/22/2012	182	4/25/2012	192
12/9/2011	184	2/23/2012	182	4/26/2012	192
12/10/2011	183	2/24/2012	182	4/27/2012	192
12/11/2011	184	2/25/2012	182	4/28/2012	191
12/12/2011	183	2/26/2012	181	4/29/2012	192
12/13/2011	183	2/27/2012	181	4/30/2012	191
12/14/2011	184	2/28/2012	180	5/1/2012	191
12/15/2011	183	2/29/2012	181	5/2/2012	180
12/16/2011	183	3/1/2012	183	5/3/2012	191
12/17/2011	183	3/2/2012	182	5/4/2012	192
12/18/2011	182	3/3/2012	182	5/5/2012	191
12/19/2011	182	3/4/2012	182	5/6/2012	191

12/20/2011	182	3/5/2012	182	5/7/2012	189
12/21/2011	180	3/6/2012	181	5/8/2012	186
12/22/2011	182	3/7/2012	181	5/9/2012	192
12/23/2011	182	3/8/2012	182	5/10/2012	191
12/24/2011	183	3/9/2012	182	5/11/2012	191
12/25/2011	182	3/10/2012	182	5/12/2012	192
12/26/2011	182	3/11/2012	182	5/13/2012	193
12/27/2011	182	3/12/2012	181		
12/28/2011	182	3/13/2012	185		
12/29/2011	182	3/14/2012	191		
12/30/2011	182	3/15/2012	190		
12/31/2011	182				
Average	182		182		189
Minimum	146		162		159
Maximum	188		191		194

Opacity, CO, SO_2, and NOx CEMS Data

Unit 2

Covanta Lake Opacity data U2-6 MIN CEMS POLL - U1 Opacity

Prior to leachate		During leachate			
(%)		(%)		After leachate	(%)
11/1/2011	1	1/15/2012	0	3/20/2012	0
11/2/2011	1	1/16/2012	0	3/21/2012	0
11/3/2011	1	1/17/2012	0	3/22/2012	0
11/4/2011	1	1/18/2012	1	3/23/2012	0
11/5/2011	1	1/19/2012	0	3/24/2012	0
11/6/2011	1	1/20/2012	0	3/25/2012	0
11/7/2011	1	1/21/2012	0	3/26/2012	0
11/8/2011	1	1/22/2012	0	3/27/2012	0
11/9/2011	1	1/23/2012	0	3/28/2012	0
11/10/2011	1	1/24/2012	0	3/29/2012	0
11/11/2011	1	1/25/2012	0	3/30/2012	0
11/12/2011	0	1/26/2012	0	3/31/2012	0
11/13/2011	1	1/27/2012	1	4/1/2012	1
11/14/2011	1	1/28/2012	0	4/2/2012	1
11/15/2011	1	1/29/2012	0	4/3/2012	0
11/16/2011	1	1/30/2012	0	4/4/2012	0
11/17/2011	1	1/31/2012	0	4/5/2012	0
11/18/2011	1	2/1/2012	0	4/6/2012	0
11/19/2011	1	2/2/2012	0	4/7/2012	0
11/20/2011	1	2/3/2012	0	4/8/2012	0
11/21/2011	1	2/4/2012	0	4/9/2012	0
11/22/2011	1	2/5/2012	0	4/10/2012	0
11/23/2011	1	2/6/2012	0	4/11/2012	0
11/24/2011	1	2/7/2012	0	4/12/2012	0
11/25/2011	1	2/8/2012	0	4/13/2012	0
11/26/2011	1	2/9/2012	0	4/14/2012	0
11/27/2011	1	2/10/2012	0	4/15/2012	0
11/28/2011	1	2/11/2012	0	4/16/2012	0
11/29/2011	1	2/12/2012	0	4/17/2012	0
11/30/2011	1	2/13/2012	0	4/18/2012	0
12/1/2011	1	2/14/2012	0	4/19/2012	0
12/2/2011	1	2/15/2012	0	4/20/2012	1
12/3/2011	1	2/16/2012	0	4/21/2012	1
12/4/2011	1	2/17/2012	0	4/22/2012	1
12/5/2011	1	2/18/2012	0	4/23/2012	0
12/6/2011	1	2/19/2012	0	4/24/2012	0
12/7/2011	1	2/20/2012	0	4/25/2012	0
12/8/2011	1	2/21/2012	0	4/26/2012	0
12/9/2011	0	2/22/2012	0	4/27/2012	0
12/10/2011	0	2/23/2012	1	4/28/2012	0
12/11/2011	0	2/24/2012	0	4/29/2012	0
12/12/2011	0	2/25/2012	0	4/30/2012	0
12/13/2011	0	2/26/2012	0	5/1/2012	0
12/14/2011	0	2/27/2012	1	5/2/2012	0
12/15/2011	0	2/28/2012	1	5/3/2012	0
12/16/2011	0	2/29/2012	0	5/4/2012	0
12/17/2011	0	3/1/2012	1	5/5/2012	0
12/18/2011	0	3/2/2012	0	5/6/2012	0

12/19/2011	0	3/3/2012	0	5/7/2012	1
12/20/2011	0	3/4/2012	0	5/8/2012	0
12/21/2011	0	3/5/2012	0	5/9/2012	1
12/22/2011	0	3/6/2012	0	5/10/2012	0
12/23/2011	0	3/7/2012	0	5/11/2012	0
12/24/2011	0	3/8/2012	0	5/12/2012	0
12/25/2011	0	3/9/2012	1	5/13/2012	0
12/26/2011	0	3/10/2012	0	5/14/2012	1
12/27/2011	1	3/11/2012	1	5/15/2012	0
12/28/2011	0	3/12/2012	0	5/16/2012	1
12/29/2011	0	3/13/2012	0	5/17/2012	0
12/30/2011	0	3/14/2012	0	5/18/2012	0
12/31/2011	0	3/15/2012	0	5/19/2012	0
				5/20/2012	0
Average	0.6		0.1		0.1
Minimum	0		0		0
Maximum	1		1		1

Covanta Lake CO data U2-4 HR BLOCK DATA - COcSel 4HR

Prior to leachate (ppm)		During leachate (ppm)		After leachate (ppm)	
11/1/2011	9	1/15/2012	23	3/20/2012	11
11/2/2011	13	1/16/2012	17	3/21/2012	10
11/10/2011	41	1/17/2012	13	3/22/2012	9
11/11/2011	35	1/18/2012	11	3/23/2012	10
11/12/2011	22	1/19/2012	11	3/24/2012	11
11/13/2011	180	1/20/2012	11	3/25/2012	9
11/14/2011	19	1/21/2012	11	3/26/2012	8
11/15/2011	17	1/22/2012	11	3/27/2012	13
11/16/2011	13	1/23/2012	12	3/28/2012	14
11/17/2011	12	1/24/2012	12	3/29/2012	11
11/18/2011	14	1/25/2012	11	3/30/2012	16
11/19/2011	11	1/26/2012	12	3/31/2012	11
11/20/2011	9	1/27/2012	15	4/1/2012	8
11/21/2011	10	1/28/2012	12	4/2/2012	10
11/22/2011	8	1/30/2012	14	4/3/2012	8
11/23/2011	7	2/1/2012	11	4/4/2012	7
11/24/2011	8	2/2/2012	17	4/5/2012	7
11/25/2011	10	2/3/2012	13	4/6/2012	9
11/26/2011	8	2/4/2012	12	4/7/2012	10
11/27/2011	8	2/5/2012	10	4/8/2012	7
11/28/2011	9	2/6/2012	15	4/9/2012	6
11/29/2011	9	2/7/2012	13	4/10/2012	10
11/30/2011	8	2/8/2012	16	4/11/2012	10
12/1/2011	10	2/9/2012	16	4/12/2012	11
12/2/2011	10	2/10/2012	16	4/13/2012	7
12/3/2011	10	2/11/2012	16	4/14/2012	6
12/4/2011	9	2/12/2012	13	4/15/2012	7
12/5/2011	10	2/13/2012	13	4/16/2012	6
12/6/2011	10	2/14/2012	12	4/17/2012	6
12/7/2011	10	2/15/2012	11	4/18/2012	9
12/8/2011	10	2/16/2012	11	4/19/2012	8
12/9/2011	10	2/17/2012	10	4/20/2012	8
12/10/2011	10	2/18/2012	9	4/21/2012	1899
12/11/2011	9	2/19/2012	7	4/23/2012	13
12/12/2011	9	2/20/2012	8	4/24/2012	9
12/13/2011	12	2/21/2012	9	4/25/2012	9
12/14/2011	13	2/22/2012	10	4/26/2012	8
12/15/2011	12	2/23/2012	13	4/27/2012	8
12/16/2011	18	2/24/2012	15	4/28/2012	7
12/17/2011	17	2/25/2012	14	4/29/2012	7
12/18/2011	12	2/26/2012	15	4/30/2012	9
12/19/2011	13	2/27/2012	15	5/1/2012	8
12/20/2011	11	2/28/2012	12	5/2/2012	9

12/21/2011	11	2/29/2012	11	5/3/2012	8
12/22/2011	11	3/1/2012	11	5/4/2012	9
12/23/2011	11	3/2/2012	14	5/5/2012	12
12/24/2011	9	3/3/2012	14	5/6/2012	7
12/25/2011	9	3/4/2012	14	5/17/2012	17
12/26/2011	10	3/5/2012	17	5/18/2012	31
12/27/2011	10	3/6/2012	17	5/19/2012	26
12/28/2011	11	3/7/2012	18	5/20/2012	25
12/29/2011	11	3/10/2012	37	5/10/2012	11
12/30/2011	10	3/11/2012	230	5/11/2012	13
12/31/2011	10	3/13/2012	36	5/12/2012	14
12/26/2011	8	3/14/2012	15	5/13/2012	15
12/27/2011	8	3/15/2012	16		
12/28/2011	9	3/14/2012	11		
12/29/2011	10	3/15/2012	14		
12/30/2011	9				
12/31/2011	11				
Average	15		18		45
Minimum	7		7		6
Maximum	180		230		1899

NOTES: High CO values on 3/11/12 and 4/21/12 were due to boiler tube rupture malfunctions.

Covanta Lake SO2 data U2-24 HOUR DATA - SO2scG @7%

Prior to leachate (ppm)		During leachate (ppm)		After leachate (ppm)	
11/1/2011	1	1/15/2012	1	3/20/2012	1
11/2/2011	1	1/16/2012	1	3/21/2012	1
11/10/2011	3	1/17/2012	1	3/22/2012	1
11/11/2011	2	1/18/2012	1	3/23/2012	1
11/12/2011	1	1/19/2012	1	3/24/2012	1
11/13/2011	1	1/20/2012	1	3/25/2012	1
11/14/2011	2	1/21/2012	1	3/26/2012	1
11/15/2011	2	1/22/2012	1	3/27/2012	1
11/16/2011	2	1/23/2012	1	3/28/2012	1
11/17/2011	2	1/24/2012	1	3/29/2012	1
11/18/2011	3	1/25/2012	1	3/30/2012	1
11/19/2011	3	1/26/2012	1	3/31/2012	1
11/20/2011	3	1/27/2012	1	4/1/2012	1
11/21/2011	3	1/28/2012	1	4/2/2012	1
11/22/2011	4	1/30/2012	2	4/3/2012	1
11/23/2011	4	2/1/2012	1	4/4/2012	1
11/24/2011	5	2/2/2012	1	4/5/2012	1
11/25/2011	5	2/3/2012	1	4/6/2012	1
11/26/2011	4	2/4/2012	1	4/7/2012	1
11/27/2011	5	2/5/2012	1	4/8/2012	1
11/28/2011	2	2/6/2012	1	4/9/2012	1
11/29/2011	1	2/7/2012	1	4/10/2012	1
11/30/2011	1	2/8/2012	1	4/11/2012	1
12/1/2011	1	2/9/2012	1	4/12/2012	1
12/2/2011	1	2/10/2012	1	4/13/2012	1
12/3/2011	1	2/11/2012	1	4/14/2012	1
12/4/2011	1	2/12/2012	1	4/15/2012	1
12/5/2011	1	2/13/2012	1	4/16/2012	1
12/6/2011	1	2/14/2012	1	4/17/2012	1
12/7/2011	1	2/15/2012	1	4/18/2012	2
12/8/2011	2	2/16/2012	1	4/19/2012	1
12/9/2011	2	2/17/2012	1	4/20/2012	1
12/10/2011	2	2/18/2012	1	4/21/2012	0.2
12/11/2011	2	2/19/2012	1	4/23/2012	1
12/12/2011	2	2/20/2012	1	4/24/2012	1
12/13/2011	3	2/21/2012	1	4/25/2012	1
12/14/2011	3	2/22/2012	1	4/26/2012	1
12/15/2011	3	2/23/2012	1	4/27/2012	1
12/16/2011	4	2/24/2012	1	4/28/2012	1
12/17/2011	3	2/25/2012	1	4/29/2012	1
12/18/2011	3	2/26/2012	1	4/30/2012	1
12/19/2011	3	2/27/2012	1	5/1/2012	1
12/20/2011	4	2/28/2012	1	5/2/2012	2

12/21/2011	4	2/29/2012	1	5/3/2012	1
12/22/2011	2	3/1/2012	1	5/4/2012	1
12/23/2011	2	3/2/2012	1	5/5/2012	1
12/24/2011	1	3/3/2012	1	5/6/2012	1
12/25/2011	1	3/4/2012	1	5/17/2012	0
12/26/2011	1	3/5/2012	1	5/18/2012	1
12/27/2011	1	3/6/2012	1	5/19/2012	1
12/28/2011	2	3/7/2012	1	5/20/2012	1
12/29/2011	1	3/10/2012	1		
12/30/2011	1	3/11/2012	2		
12/31/2011	1	3/13/2012	2		
		3/14/2012	1		
		3/15/2012	1		
Average	2		1		1
Minimum	1		1		0
Maximum	5		2		2

Covanta Lake NOx data U2-24 HOUR DATA - NOXsc7% DY

Prior to leachate	(ppm)	During leachate	(ppm)	After leachate	(ppm)
11/1/2011	178	1/15/2012	178	3/20/2012	178
11/2/2011	162	1/16/2012	176	3/21/2012	178
11/10/2011	174	1/17/2012	177	3/22/2012	179
11/11/2011	178	1/18/2012	177	3/23/2012	178
11/12/2011	177	1/19/2012	178	3/24/2012	178
11/13/2011	167	1/20/2012	179	3/25/2012	178
11/14/2011	178	1/21/2012	178	3/26/2012	178
11/15/2011	178	1/22/2012	178	3/27/2012	184
11/16/2011	178	1/23/2012	178	3/28/2012	188
11/17/2011	178	1/24/2012	178	3/29/2012	188
11/18/2011	179	1/25/2012	178	3/30/2012	188
11/19/2011	178	1/26/2012	178	3/31/2012	188
11/20/2011	179	1/27/2012	178	4/1/2012	188
11/21/2011	178	1/28/2012	166	4/2/2012	188
11/22/2011	178	1/30/2012	145	4/3/2012	189
11/23/2011	179	2/1/2012	178	4/4/2012	188
11/24/2011	179	2/2/2012	179	4/5/2012	188
11/25/2011	179	2/3/2012	178	4/6/2012	188
11/26/2011	178	2/4/2012	178	4/7/2012	188
11/27/2011	179	2/5/2012	178	4/8/2012	188
11/28/2011	178	2/6/2012	178	4/9/2012	188
11/29/2011	178	2/7/2012	180	4/10/2012	188
11/30/2011	179	2/8/2012	178	4/11/2012	188
12/1/2011	179	2/9/2012	178	4/12/2012	188
12/2/2011	178	2/10/2012	178	4/13/2012	188
12/3/2011	178	2/11/2012	178	4/14/2012	189
12/4/2011	179	2/12/2012	178	4/15/2012	188
12/5/2011	178	2/13/2012	179	4/16/2012	188
12/6/2011	179	2/14/2012	178	4/17/2012	188
12/7/2011	179	2/15/2012	179	4/18/2012	188
12/8/2011	179	2/16/2012	178	4/19/2012	188
12/9/2011	178	2/17/2012	179	4/20/2012	188
12/10/2011	178	2/18/2012	179	4/21/2012	122
12/11/2011	178	2/19/2012	179	4/23/2012	187
12/12/2011	179	2/20/2012	178	4/24/2012	189
12/13/2011	178	2/21/2012	178	4/25/2012	188
12/14/2011	165	2/22/2012	178	4/26/2012	188
12/15/2011	174	2/23/2012	178	4/27/2012	188
12/16/2011	134	2/24/2012	178	4/28/2012	189
12/17/2011	177	2/25/2012	178	4/29/2012	188
12/18/2011	178	2/26/2012	178	4/30/2012	188
12/19/2011	178	2/27/2012	178	5/1/2012	188
12/20/2011	180	2/28/2012	178	5/2/2012	188
12/21/2011	176	2/29/2012	177	5/3/2012	188
12/22/2011	177	3/1/2012	178	5/4/2012	189
12/23/2011	179	3/2/2012	178	5/5/2012	188
12/24/2011	178	3/3/2012	178	5/6/2012	171
12/25/2011	179	3/4/2012	178	5/17/2012	186

12/26/2011	179	3/5/2012	178	5/18/2012	188
12/27/2011	179	3/6/2012	178	5/19/2012	186
12/28/2011	177	3/7/2012	164	5/20/2012	187
12/29/2011	179	3/10/2012	175		
12/30/2011	179	3/11/2012	183		
12/31/2011	179	3/13/2012	181		
		3/14/2012	188		
		3/15/2012	188		
		3/14/2012	191		
		3/15/2012	190		
Average	177		178		185
Minimum	134		145		122
Maximum	180		191		189

RECEIVED
JUL 13 2012
DIVISION OF AIR RESOURCE MANAGEMENT

Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial, revised, or renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: Covanta Lake II, Inc.	
2. Site Name: Lake County Resource Recovery Facility	
3. Facility Identification Number: 0690046	
4. Facility Location... Street Address or Other Locator: 3830 Rogers Industrial Park Road City: Okahumpka County: Lake Zip Code: 34762	
5. Relocatable Facility? ☐ Yes ☒ No	6. Existing Title V Permitted Facility? ☒ Yes ☐ No

Application Contact

1. Application Contact Name: Viet Ta
2. Application Contact Mailing Address... Organization/Firm: Covanta Lake II, Inc. Street Address: 3830 Rogers Industrial Park Road City: Okahumpka State: FL Zip Code: 34762
3. Application Contact Telephone Numbers... Telephone: (727) 919 - 7671 ext. Fax: (727) 856 - 0007
4. Application Contact Email Address: vta@covantaenergy.com

Application Processing Information (DEP Use)

1. Date of Receipt of Application: 7-13-2012	3. PSD Number (if applicable):
2. Project Number(s): 0690046-012-AC 0690046-013-AV	4. Siting Number (if applicable):

APPLICATION INFORMATION

Purpose of Application

This application for air permit is being submitted to obtain: (Check one)

Air Construction Permit

☐ Air construction permit.

☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).

☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

Air Operation Permit

☐ Initial Title V air operation permit.

☐ Title V air operation permit revision.

☐ Title V air operation permit renewal.

☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.

☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)

☒ Air construction permit and Title V permit revision, incorporating the proposed project.

☐ Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

☒ I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

This application is for a permanent leachate injection construction permit, a revision to Title V permit to include leachate injection, and a revision to Title V permit conditions **A.5**.g and **A.42**.c. regarding acceptance and processing of non-hazardous solid and liquid waste.

Emissions limits are not impacted by these revisions.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
001	Municipal Waste Combustor – Unit 1	AF2A	NA
002	Municipal Waste Combustor – Unit 2	AF2A	NA
003	Activated carbon storage silo	AF2C	NA
004	Emergency diesel-fired reciprocating internal combustion engine (RICE)	AF2C	NA

Application Processing Fee

Check one: ☐ Attached - Amount: $_____ ☒ Not Applicable

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name : Bradford Crispell, Vice President, Regional Business Manager

2. Owner/Authorized Representative Mailing Address...
   Organization/Firm: Covanta Energy Corp.
   Street Address: 14230 Hays Road
   City: Spring Hill State: FL Zip Code: 34760

3. Owner/Authorized Representative Telephone Numbers...
   Telephone: (727) 856 - 2917 ext. 218 Fax: (727) 856 - 0007

4. Owner/Authorized Representative E-mail Address: bcrispell@covantaenergy.com

5. Owner/Authorized Representative Statement:

   I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.

Signature 7/9/12 Date

APPLICATION INFORMATION

Application Responsible Official Certification

Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1. Application Responsible Official Name: Gary Main

2. Application Responsible Official Qualification (Check one or more of the following options, as applicable):

   [X] For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.

   [ ] For a partnership or sole proprietorship, a general partner or the proprietor, respectively.

   [ ] For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.

   [ ] The designated representative at an Acid Rain source or CAIR source.

3. Application Responsible Official Mailing Address...
   Organization/Firm: Covanta Lake II, Inc.
   Street Address: 3830 Rogers Industrial Park Road
   City: Okahumpka State: FL Zip Code: 34762

4. Application Responsible Official Telephone Numbers...
   Telephone: (352)365 -1611 Fax: (352)365 -6359

5. Application Responsible Official Email Address: gmain@covantaenergy.com

6. Application Responsible Official Certification:

   I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained 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 and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.

   Signature Date 7/12/12

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Jason M. Gorrie
   Registration Number: 55341
2. Professional Engineer Mailing Address...
   Organization/Firm: Covanta Energy
   Street Address: 350 N. Falkenberg Road
   City: Tampa State: FL Zip Code: 33619
3. Professional Engineer Telephone Numbers...
   Telephone: 813-684-5688 ext. 3015 Fax: (727) 856 - 0007
4. Professional Engineer Email Address: jgorrie@covantaenergy.com
5. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

(3) If the purpose of this application is to obtain a Title V air operation permit (check here ☐, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.

(4) If the purpose of this application is to obtain an air construction permit (check here ☒, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here ☐, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature (seal) Date: 7/10/2012

* Attach any exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 413.12 North (km) 3179.21		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 284422 Longitude (DD/MM/SS) 815323	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4953
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: Gary Main
2. Facility Contact Mailing Address... Organization/Firm: Covanta Lake II, Inc. Street Address: 3830 Rogers Industrial Park Road City: Okahumpka State: FL Zip Code: 34762
3. Facility Contact Telephone Numbers: Telephone: (352) 365 - 1611 ext. 226 Fax: (352) 365 - 6359
4. Facility Contact Email Address: gmain@covantaenergy.com

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I that is not the facility "primary responsible official."

1. Facility Primary Responsible Official Name: Bradford Crispell, Vice President, Regional Business Manager
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Covanta Energy Corp. Street Address: 14230 Hays Road City: Spring Hill State: FL Zip Code: 34760
3. Facility Primary Responsible Official Telephone Numbers... Telephone: (727)856 -2917, ext. 218 Fax: (727)856 -0007
4. Facility Primary Responsible Official E-mail Address: bcrispell@covantaenergy.com

Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a "major source" and a "synthetic minor source."

1. ☐ Small Business Stationary Source	☐ Unknown
2. ☐ Synthetic Non-Title V Source	
3. ☒ Title V Source	
4. ☒ Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. ☐ Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. ☒ Major Source of Hazardous Air Pollutants (HAPs)	
7. ☐ Synthetic Minor Source of HAPs	
8. ☒ One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. ☒ One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. ☒ One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. ☒ Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
CO	A	N
DIOX	B	N
H027 (Cd)	B	N
H106 (HCl)	A	N
H114 (Hg)	B	N
NOX	A	N
PB	B	N
PM	B	N
SO2	A	N

B. EMISSIONS CAPS *NOT APPLICABLE*

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility-Wide Cap [Y or N]? (all units)	3. Emissions Unit ID's Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: ☒ Previously Submitted, Date: May 2011
2. Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: ☒ Previously Submitted, Date: May 2011
3. Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: ☒ Previously Submitted, Date: May 2011

Additional Requirements for Air Construction Permit Applications

1. Area Map Showing Facility Location:
   ☐ Attached, Document ID: _____ ☒ Not Applicable (existing permitted facility)
2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL):
   ☒ Attached, Document ID: Summary Report
3. Rule Applicability Analysis:
   ☐ Attached, Document ID: _____
4. List of Exempt Emissions Units:
   ☐ Attached, Document ID: _____ ☒ Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification:
   ☐ Attached, Document ID: _____ ☒ Not Applicable
6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.):
   ☐ Attached, Document ID: _____ ☒ Not Applicable
7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.):
   ☐ Attached, Document ID: _____ ☒ Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.):
   ☐ Attached, Document ID: _____ ☒ Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.):
   ☐ Attached, Document ID: _____ ☒ Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):
    ☐ Attached, Document ID: _____ ☒ Not Applicable

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications *NOT APPLICABLE*

1. List of Exempt Emissions Units:
   ☐ Attached, Document ID:_____ ☒ Not Applicable (no exempt units at facility)

Additional Requirements for Title V Air Operation Permit Applications

1. List of Insignificant Activities: (Required for initial/renewal applications only)
   ☐ Attached, Document ID: ☒ Not Applicable (revision application)

2. Identification of Applicable Requirements: (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought)
   ☐ Attached, Document ID:
   ☒ Not Applicable (revision application with no change in applicable requirements)

3. Compliance Report and Plan: (Required for all initial/revision/renewal applications)
   ☐ Attached, Document ID:
   Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.

4. List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only)
   ☐ Attached, Document ID:_____
   ☐ Equipment/Activities Onsite but Not Required to be Individually Listed
   ☒ Not Applicable

5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only)
   ☐ Attached, Document ID:_____ ☒ Not Applicable

6. Requested Changes to Current Title V Air Operation Permit:
   ☒ Attached, Document ID: Appendix A ☐ Not Applicable

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1. Acid Rain Program Forms:

   Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   [x] Not Applicable (not an Acid Rain source)

   Phase II NO_X Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   [x] Not Applicable

   New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   [x] Not Applicable

2. CAIR Part (DEP Form No. 62-210.900(1)(b)):
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   [x] Not Applicable (not a CAIR source)

Additional Requirements Comment

Appendix B is a Summary Report on the leachate injection system.

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application – Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

   [x] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

   [ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

   [x] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

   [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

   [ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:
Municipal Waste Combustor – Unit 1

3. Emissions Unit Identification Number: 001

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49
A			

8. Federal Program Applicability: (Check all that apply)

   [ ] Acid Rain Unit

   [ ] CAIR Unit

9. Package Unit:
   Manufacturer: Model Number:

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

Emissions Unit Control Equipment/Method: Control 1 of 4

1. Control Equipment/Method Description: Selective Noncatalytic Reduction for NOx
2. Control Device or Method Code: 107

Emissions Unit Control Equipment/Method: Control 2 of 4

1. Control Equipment/Method Description: Activated Carbon Adsorption
2. Control Device or Method Code: 048

Emissions Unit Control Equipment/Method: Control 3 of 4

1. Control Equipment/Method Description: Gas Scrubber (General, Not Classified)
2. Control Device or Method Code: 013

Emissions Unit Control Equipment/Method: Control 4 of 4

1. Control Equipment/Method Description: Fabric Filter - High Temperature (T > 250F)
2. Control Device or Method Code: 016

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: NA	
2. Maximum Production Rate: 69,000 lbs. steam per hour (4 hour ave)	
3. Maximum Heat Input Rate: 120 million Btu/hr	
4. Maximum Incineration Rate: pounds/hr 288 tons/day (daily ave)	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8760 hours/year
6. Operating Capacity/Schedule Comment:	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Flue #1	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA		
5. Discharge Type Code: V	6. Stack Height: 199 feet	7. Exit Diameter: 4.3 feet
8. Exit Temperature: 270 °F	9. Actual Volumetric Flow Rate: 59400 acfm	10. Water Vapor: 19 %
11. Maximum Dry Standard Flow Rate: 43200 dscfm @9%O2	12. Nonstack Emission Point Height: NA feet	
13. Emission Point UTM Coordinates... Zone 17 East (km) 413.12 North (km) 3179.21	14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) 284422 Longitude (DD/MM/SS) 815323	
15. Emission Point Comment:		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1_ of 2_

1. Segment Description (Process/Fuel Type): Natural gas burning during boiler startup, shutdown, and combustion control periods.		
2. Source Classification Code (SCC): 10100602	3. SCC Units: million cubic feet	
4. Maximum Hourly Rate: 0.09	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1040
10. Segment Comment:		

Segment Description and Rate: Segment 2_ of 2_

1. Segment Description (Process/Fuel Type): Municipal solid waste combustion		
2. Source Classification Code (SCC): 10101201	3. SCC Units: tons burned	
4. Maximum Hourly Rate: 12	5. Maximum Annual Rate: 105120	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 10
10. Segment Comment: Million Btu per SCC Unit calculated based on MSW heat content 5,000 BTU per pound.		

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
CO			**EL**
DIOX	**048**	**016**	**EL**
H027 (Cd)	**016**		**EL**
H106 (HCl)	**013**		**EL**
H114 (Hg)	**048**	**016**	**EL**
NOx	**107**		**EL**
PB	**016**		**EL**
PM	**016**		**EL**
SO2	**013**		**EL**

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control:
3. Potential Emissions: 18.84 lb/hour 82.50 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 100 ppm Reference: PSD-FL-113 permit allowable	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years

10. Calculation of Emissions:
lb/hr = 100 ppm * 28 * 43200 dscfm * 60 / 385.3E6 = 18.84
tons/year = 18.84* 8760 / 2000 = 82.50

11. Potential, Fugitive, and Actual Emissions Comment:

1. Pollutant Emitted: DIOX	2. Total Percent Efficiency of Control:
3. Potential Emissions: 4.85E-06 lb/hour 2.13E-05 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 30 ng/dscm Reference: 40 CFR 60.33b(c)(1)(iii)	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 30 ng/dscm*43200*60/35.29/454/1000/1000000 = 4.85E-06 tons/year = 4.85E-06 * 8760 / 2000 = 2.13E-05	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: H027 (Cd)	2. Total Percent Efficiency of Control:
3. Potential Emissions: 5.66E-03 lb/hour 2.48E-02 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 0.035 mg/dscm Reference: 40 CFR 60.33b(a)(2)(i)	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 0.035 mg/dscm*43200*60/35.29/454/1000 = 5.66E-03 tons/year = 5.66E-03 * 8760 / 2000 = 2.48E-02	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: H106 (HCl)	2. Total Percent Efficiency of Control:
3. Potential Emissions: 7.11 lb/hour 31.15 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 29 ppm Reference: PSD-FL-113 permit allowable	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 29 ppm /1000000/385.3*36.46*43200*60= 7.11 tons/year = 7.11 * 8760 / 2000 = 31.15	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: H114 (Hg)	2. Total Percent Efficiency of Control:
3. Potential Emissions: 8.09E-03 lb/hour 3.54E-02 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 0.05 mg/dscm Reference: 40 CFR 60.33b(a)(3)	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 0.05 mg/dscm* 43200*60/35.29/454/1000= 8.09E-03 tons/year = 8.09E-03 * 8760 / 2000 = 3.54E-02	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: NOx	2. Total Percent Efficiency of Control:
3. Potential Emissions: 63.44 lb/hour 277.86 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 205 ppm Reference: PSD-FL-113 permit allowable	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 205 ppm /1000000/385.3*46*43200*60= 63.44 tons/year = 63.44 * 8760 / 2000 = 277.86	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: PB	2. Total Percent Efficiency of Control:
3. Potential Emissions: 6.47E-02 lb/hour 2.83E-01 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 0.40 mg/dscm Reference: 40 CFR 60.33b(a)(4)	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 0.4 mg/dscm* 43200*60/35.29/454/1000= 6.47E-02 tons/year = 6.47E-02 * 8760 / 2000 = 2.83E-01	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control:
3. Potential Emissions: 4.04 lb/hour 17.72 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 25 mg/dscm Reference: 40 CFR 60.33b(a)(1)(i)	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 25 mg/dscm* 43200*60/35.29/454/1000 = 4.04 tons/year = 4.04 * 8760 / 2000 = 17.72	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control:
3. Potential Emissions: 12.49 lb/hour 54.69 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 29 ppm Reference: PSD-FL-113 permit allowable	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 29 ppm /1000000/385.3*64*43200*60= 12.49 tons/year = 12.49 * 8760 / 2000 = 54.69	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: CO 100 ppm (4-hr block ave)	4. Equivalent Allowable Emissions: 18.84 lb/hour 82.50 tons/year
5. Method of Compliance: CEMS	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 2_ of 12

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: DIOX 30 ng/dscm	4. Equivalent Allowable Emissions: 4.85E-06 lb/hour 2.13E-05 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 3_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: H027 (Cd) 0.035 mg/dscm	4. Equivalent Allowable Emissions: 5.66E-03 lb/hour 2.48E-02 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 4_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: H106 (HCl) 29 ppm or 95% reduction	4. Equivalent Allowable Emissions: 7.11 lb/hour 31.15 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 5_ of 12

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: H114 (Hg) 0.05 mg/dscm or 85% reduction	4. Equivalent Allowable Emissions: 8.09E-03 lb/hour 3.54E-02 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 6_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: NOx 205 ppm (24-hr block ave)	4. Equivalent Allowable Emissions: 63.44 lb/hour 277.86 tons/year
5. Method of Compliance: CEMS	
6. Allowable Emissions Comment (Description of Operating Method):	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 7_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: PB 0.40 mg/dscm	4. Equivalent Allowable Emissions: 6.47E-02 lb/hour 2.83E-01 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 8_ of 12

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: PM 25 mg/dscm	4. Equivalent Allowable Emissions: 4.04 lb/hour 17.72 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 9_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: SO2 29 ppm or 75% reduction(24-hr geo. Ave)	4. Equivalent Allowable Emissions: 12.49 lb/hour 54.69 tons/year
5. Method of Compliance: CEMS	
6. Allowable Emissions Comment (Description of Operating Method):	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 10_____ of 12_____

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 110% demonstrated steam load, klb/hr (4-hr Ave)	4. Equivalent Allowable Emissions: NA
5. Method of Compliance: Continuous operating parameter monitor	
6. Allowable Emissions Comment (Description of Operating Method): PSD permit limit for steam load, 69 klb/hr (4-hr Ave)	

Allowable Emissions Allowable Emissions 11_____ of 12

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 17°C above demonstrated baghouse inlet temp. (4-hr Ave)	4. Equivalent Allowable Emissions: NA
5. Method of Compliance: Continuous operating parameter monitor	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 12_____ of 12_____

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: carbon = or > demonstrated feed rate, lb/hr(8-hr Ave)	4. Equivalent Allowable Emissions: NA
5. Method of Compliance: Continuous operating parameter monitor	
6. Allowable Emissions Comment (Description of Operating Method):	

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1_ of 2___

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: [x] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: COMS	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation 2_ of 2___

1. Visible Emissions Subtype: VE	2. Basis for Allowable Opacity: [x] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual VE test	
5. Visible Emissions Comment: RULE 40CFR60.55b standards for fugitive emissions from ash conveying system: 5% of the observation period (i.e. 9 minutes per 3-hour) as per EPA Method 22	

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1__ of 11_

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement:	[x] Rule [ ] Other
4. Monitor Information... Manufacturer: AMETEX Model Number: 921	Serial Number: # AW921-S343
5. Installation Date: 1/8/08	6. Performance Specification Test Date: 1/29/08
7. Continuous Monitor Comment: Stack CEMS	

Continuous Monitoring System: Continuous Monitor 2__ of 11_

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement:	[x] Rule [ ] Other
4. Monitor Information... Manufacturer: AMETEK Model Number: 921	Serial Number: AE921-S493
5. Installation Date: 12/8/08	6. Performance Specification Test Date: 1/14/09
7. Continuous Monitor Comment: Scrubber Inlet CEMS	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 3__ of 11_

1. Parameter Code: O2	2. Pollutant(s): dilluent correction
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: CALIFORNIA ANALYTICAL Model Number: 110P	Serial Number: U01164
5. Installation Date: 1/8/08	6. Performance Specification Test Date: 1/29/08
7. Continuous Monitor Comment: Stack CEMS	

Continuous Monitoring System: Continuous Monitor 4__ of 11_

1. Parameter Code: O2	2. Pollutant(s): dilluent correction
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: CALIFORNIA ANALYTICAL Model Number: 110P	Serial Number: V08038
5. Installation Date: 12/8/08	6. Performance Specification Test Date: 1/14/09
7. Continuous Monitor Comment: Scrubber Inlet CEMS	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 5__ of 11_

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: California Analytical Model Number: 602	Serial Number: V12009-M-COL
5. Installation Date: 12/8/09	6. Performance Specification Test Date: 1/12/10
7. Continuous Monitor Comment: Stack CEMS low range	

Continuous Monitoring System: Continuous Monitor 6__ of 11_

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: California Analytical Model Number: 602	Serial Number: V12009-M-COH
5. Installation Date: 12/8/09	6. Performance Specification Test Date: 1/12/10
7. Continuous Monitor Comment: Stack CEMS high range	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 7__ of 11_

1. Parameter Code: EM	2. Pollutant(s): NOx
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: TECO Model Number: 42CHL	Serial Number: 65510-348
5. Installation Date:	6. Performance Specification Test Date: 2/15/00
7. Continuous Monitor Comment: Stack CEMS	

Continuous Monitoring System: Continuous Monitor 8__ of 11_

1. Parameter Code: VE	2. Pollutant(s): Opacity
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: Sick Model Number: OMD41	Serial Number: 4448016
5. Installation Date: 7/28/05	6. Performance Specification Test Date: 7/28/05
7. Continuous Monitor Comment: Stack COMS	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 9__ of 11_

1. Parameter Code: TEMP	2. Pollutant(s): Baghouse inlet temperature
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: Thermo Fisher Scientific Model Number: SV100-100-123-000-00	Serial Number: D10EA001
5. Installation Date:	6. Performance Specification Test Date: NA
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 10_ of 11_

1. Parameter Code: Steam load	2. Pollutant(s): Steam load
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: Odessa Model Number: DSM-3260	Serial Number: 105037
5. Installation Date:	6. Performance Specification Test Date: NA
7. Continuous Monitor Comment:	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 11_ of 11_

1. Parameter Code: Carbon feed rate	2. Pollutant(s): carbon feed rate
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: H2NS Inc. Model Number: CPP4794	Serial Number: 20160
5. Installation Date: 11/10/10	6. Performance Specification Test Date: NA
7. Continuous Monitor Comment:	

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: ☒ Previously Submitted, Date May 2011

2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: ☒ Previously Submitted, Date May 2011

3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: ☒ Previously Submitted, Date May 2011

4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: ☒ Previously Submitted, Date May 2011
   ☐ Not Applicable (construction application)

5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: ☒ Previously Submitted, Date May 2011
   ☐ Not Applicable

6. Compliance Demonstration Reports/Records:
   ☐ Attached, Document ID:
   Test Date(s)/Pollutant(s) Tested:
   ☒ Previously Submitted, Date: 3-2-12
   Test Date(s)/Pollutant(s) Tested: January 2012/ PM, Pb, Cd, Hg, HCl, DIOX, CO, SO_2, NOx, VE, FE
   ☐ To be Submitted, Date (if known):
   Test Date(s)/Pollutant(s) Tested:
   ☐ Not Applicable
   Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.

7. Other Information Required by Rule or Statute:
   ☐ Attached, Document ID: ☒ Not Applicable

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications *NOT APPLICABLE*

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)):
   ☐ Attached, Document ID: _____ ☐ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.):
   ☐ Attached, Document ID: _____ ☐ Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)
   ☐ Attached, Document ID: _____ ☐ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements:
   ☐ Attached, Document ID: _____
2. Compliance Assurance Monitoring:
   ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Alternative Methods of Operation:
   ☐ Attached, Document ID: _____ ☒ Not Applicable
4. Alternative Modes of Operation (Emissions Trading):
   ☐ Attached, Document ID: _____ ☒ Not Applicable

Additional Requirements Comment

See Summary Report for stack test results.

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

[x] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

[x] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:
Municipal Waste Combustor – Unit 2

3. Emissions Unit Identification Number: 002

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49
A			

8. Federal Program Applicability: (Check all that apply)

[ ] Acid Rain Unit

[ ] CAIR Unit

9. Package Unit:
Manufacturer: Model Number:

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

Emissions Unit Control Equipment/Method: Control 1 of 4

1. Control Equipment/Method Description: Selective Noncatalytic Reduction for NOx
2. Control Device or Method Code: 107

Emissions Unit Control Equipment/Method: Control 2 of 4

1. Control Equipment/Method Description: Activated Carbon Adsorption
2. Control Device or Method Code: 048

Emissions Unit Control Equipment/Method: Control 3 of 4

1. Control Equipment/Method Description: Gas Scrubber (General, Not Classified)
2. Control Device or Method Code: 013

Emissions Unit Control Equipment/Method: Control 4 of 4

1. Control Equipment/Method Description: Fabric Filter - High Temperature (T > 250F)
2. Control Device or Method Code: 016

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: NA	
2. Maximum Production Rate: 69,000 lbs. steam per hour (4 hour ave)	
3. Maximum Heat Input Rate: 120 million Btu/hr	
4. Maximum Incineration Rate: pounds/hr 288 tons/day (daily ave)	
5. Requested Maximum Operating Schedule: 24 hours/day 52 weeks/year	7 days/week 8760 hours/year
6. Operating Capacity/Schedule Comment:	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Flue #2	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA		
5. Discharge Type Code: V	6. Stack Height: 199 feet	7. Exit Diameter: 4.3 feet
8. Exit Temperature: 270 °F	9. Actual Volumetric Flow Rate: 59400 acfm	10. Water Vapor: 19 %
11. Maximum Dry Standard Flow Rate: 43200 dscfm @9%O2	12. Nonstack Emission Point Height: NA feet	
13. Emission Point UTM Coordinates... Zone 17 East (km) 413.12 North (km) 3179.21	14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) 284422 Longitude (DD/MM/SS) 815323	
15. Emission Point Comment:		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1_ of 2_

1. Segment Description (Process/Fuel Type): Natural gas burning during boiler startup, shutdown, and combustion control periods.		
2. Source Classification Code (SCC): 10100602	3. SCC Units: million cubic feet	
4. Maximum Hourly Rate: 0.09	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1040
10. Segment Comment:		

Segment Description and Rate: Segment 2_ of 2_

1. Segment Description (Process/Fuel Type): Municipal solid waste combustion		
2. Source Classification Code (SCC): 10101201	3. SCC Units: tons burned	
4. Maximum Hourly Rate: 12	5. Maximum Annual Rate: 105120	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 10
10. Segment Comment: Million Btu per SCC Unit calculated based on MSW heat content 5,000 BTU per pound.		

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
CO			**EL**
DIOX	**048**	**016**	**EL**
H027 (Cd)	**016**		**EL**
H106 (HCl)	**013**		**EL**
H114 (Hg)	**048**	**016**	**EL**
NOx	**107**		**EL**
PB	**016**		**EL**
PM	**016**		**EL**
SO2	**013**		**EL**

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control:
3. Potential Emissions: 18.84 lb/hour 82.50 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 100 ppm Reference: PSD-FL-113 permit allowable	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years

10. Calculation of Emissions:
lb/hr = 100 ppm * 28 * 43200 dscfm * 60 / 385.3E6 = 18.84
tons/year = 18.84* 8760 / 2000 = 82.50

11. Potential, Fugitive, and Actual Emissions Comment:

1. Pollutant Emitted: DIOX	2. Total Percent Efficiency of Control:
3. Potential Emissions: 4.85E-06 lb/hour 2.13E-05 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 30 ng/dscm Reference: 40 CFR 60.33b(c)(1)(iii)	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 30 ng/dscm*43200*60/35.29/454/1000/1000000 = 4.85E-06 tons/year = 4.85E-06 * 8760 / 2000 = 2.13E-05	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: H027 (Cd)	2. Total Percent Efficiency of Control:
3. Potential Emissions: 5.66E-03 lb/hour 2.48E-02 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 0.035 mg/dscm Reference: 40 CFR 60.33b(a)(2)(i)	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 0.035 mg/dscm*43200*60/35.29/454/1000 = 5.66E-03 tons/year = 5.66E-03 * 8760 / 2000 = 2.48E-02	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: H106 (HCl)	2. Total Percent Efficiency of Control:
3. Potential Emissions: 7.11 lb/hour 31.15 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 29 ppm Reference: PSD-FL-113 permit allowable	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 29 ppm /1000000/385.3*36.46*43200*60= 7.11 tons/year = 7.11 * 8760 / 2000 = 31.15	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: H114 (Hg)	2. Total Percent Efficiency of Control:
3. Potential Emissions: 8.09E-03 lb/hour 3.54E-02 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 0.05 mg/dscm Reference: 40 CFR 60.33b(a)(3)	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 0.05 mg/dscm* 43200*60/35.29/454/1000= 8.09E-03 tons/year = 8.09E-03 * 8760 / 2000 = 3.54E-02	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: NOx	2. Total Percent Efficiency of Control:
3. Potential Emissions: 63.44 lb/hour 277.86 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 205 ppm Reference: PSD-FL-113 permit allowable	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 205 ppm /1000000/385.3*46*43200*60= 63.44 tons/year = 63.44 * 8760 / 2000 = 277.86	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: PB	2. Total Percent Efficiency of Control:
3. Potential Emissions: 6.47E-02 lb/hour 2.83E-01 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 0.40 mg/dscm Reference: 40 CFR 60.33b(a)(4)	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 0.4 mg/dscm* 43200*60/35.29/454/1000= 6.47E-02 tons/year = 6.47E-02 * 8760 / 2000 = 2.83E-01	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control:
3. Potential Emissions: 4.04 lb/hour 17.72 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 25 mg/dscm Reference: 40 CFR 60.33b(a)(1)(i)	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 25 mg/dscm* 43200*60/35.29/454/1000 = 4.04 tons/year = 4.04 * 8760 / 2000 = 17.72	
11. Potential, Fugitive, and Actual Emissions Comment:	

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control:
3. Potential Emissions: 12.49 lb/hour 54.69 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 29 ppm Reference: PSD-FL-113 permit allowable	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: lb/hr = 29 ppm /1000000/385.3*64*43200*60= 12.49 tons/year = 12.49 * 8760 / 2000 = 54.69	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: CO 100 ppm (4-hr block ave)	4. Equivalent Allowable Emissions: 18.84 lb/hour 82.50 tons/year
5. Method of Compliance: CEMS	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 2_ of 12

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: DIOX 30 ng/dscm	4. Equivalent Allowable Emissions: 4.85E-06 lb/hour 2.13E-05 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 3_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: H027 (Cd) 0.035 mg/dscm	4. Equivalent Allowable Emissions: 5.66E-03 lb/hour 2.48E-02 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 4_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: H106 (HCl) 29 ppm or 95% reduction	4. Equivalent Allowable Emissions: 7.11 lb/hour 31.15 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 5_ of 12

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: H114 (Hg) 0.05 mg/dscm or 85% reduction	4. Equivalent Allowable Emissions: 8.09E-03 lb/hour 3.54E-02 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 6_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: NOx 205 ppm (24-hr block ave)	4. Equivalent Allowable Emissions: 63.44 lb/hour 277.86 tons/year
5. Method of Compliance: CEMS	
6. Allowable Emissions Comment (Description of Operating Method):	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 7_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: PB 0.40 mg/dscm	4. Equivalent Allowable Emissions: 6.47E-02 lb/hour 2.83E-01 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 8_ of 12

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: PM 25 mg/dscm	4. Equivalent Allowable Emissions: 4.04 lb/hour 17.72 tons/year
5. Method of Compliance: Annual stack test	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 9_ of 12_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: SO2 29 ppm or 75% reduction(24-hr geo. Ave)	4. Equivalent Allowable Emissions: 12.49 lb/hour 54.69 tons/year
5. Method of Compliance: CEMS	
6. Allowable Emissions Comment (Description of Operating Method):	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 10_____ of 12_____

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 110% demonstrated steam load, klb/hr (4-hr Ave)	4. Equivalent Allowable Emissions: NA
5. Method of Compliance: Continuous operating parameter monitor	
6. Allowable Emissions Comment (Description of Operating Method): PSD permit limit for steam load, 69 klb/hr (4-hr Ave)	

Allowable Emissions Allowable Emissions 11_____ of 12

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 17°C above demonstrated baghouse inlet temp. (4-hr Ave)	4. Equivalent Allowable Emissions: NA
5. Method of Compliance: Continuous operating parameter monitor	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 12_____ of 12_____

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: carbon = or > demonstrated feed rate, lb/hr(8-hr Ave)	4. Equivalent Allowable Emissions: NA
5. Method of Compliance: Continuous operating parameter monitor	
6. Allowable Emissions Comment (Description of Operating Method):	

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1_ of 2___

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: [x] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: COMS	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation 2_ of 2___

1. Visible Emissions Subtype: VE	2. Basis for Allowable Opacity: [x] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual VE test	
5. Visible Emissions Comment: RULE 40CFR60.55b standards for fugitive emissions from ash conveying system: 5% of the observation period (i.e. 9 minutes per 3-hour) as per EPA Method 22	

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1__ of 11_

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement:	[x] Rule [ ] Other
4. Monitor Information... Manufacturer: AMETEX Model Number: 921	Serial Number: # AW921-S344
5. Installation Date: 1/8/08	6. Performance Specification Test Date: 1/29/08
7. Continuous Monitor Comment: Stack CEMS	

Continuous Monitoring System: Continuous Monitor 2__ of 11_

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement:	[x] Rule [ ] Other
4. Monitor Information... Manufacturer: AMETEK Model Number: 921	Serial Number: AE921-S494
5. Installation Date: 12/8/08	6. Performance Specification Test Date: 1/14/09
7. Continuous Monitor Comment: Scrubber Inlet CEMS	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 3__ of 11_

1. Parameter Code: O2	2. Pollutant(s): dilluent correction
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: CALIFORNIA ANALYTICAL Model Number: 110P	Serial Number: U01165
5. Installation Date: 1/8/08	6. Performance Specification Test Date: 1/29/08
7. Continuous Monitor Comment: Stack CEMS	

Continuous Monitoring System: Continuous Monitor 4__ of 11_

1. Parameter Code: O2	2. Pollutant(s): dilluent correction
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: CALIFORNIA ANALYTICAL Model Number: 110P	Serial Number: V08039
5. Installation Date: 12/8/08	6. Performance Specification Test Date: 1/14/09
7. Continuous Monitor Comment: Scrubber Inlet CEMS	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 5__ of 11_

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: California Analytical Model Number: 602	Serial Number: V12010-M-COL
5. Installation Date: 12/8/09	6. Performance Specification Test Date: 1/13/10
7. Continuous Monitor Comment: Stack CEMS low range	

Continuous Monitoring System: Continuous Monitor 6__ of 11_

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: California Analytical Model Number: 602	Serial Number: V12010-M-COH
5. Installation Date: 12/8/09	6. Performance Specification Test Date: 1/13/10
7. Continuous Monitor Comment: Stack CEMS high range	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 7__ of 11_

1. Parameter Code: EM	2. Pollutant(s): NOx
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: TECO Model Number: 42CHL	Serial Number: 65510-348
5. Installation Date:	6. Performance Specification Test Date: 2/15/00
7. Continuous Monitor Comment: Stack CEMS	

Continuous Monitoring System: Continuous Monitor 8__ of 11_

1. Parameter Code: VE	2. Pollutant(s): Opacity
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: Sick Model Number: OMD41	Serial Number: 4438017
5. Installation Date: 7/28/05	6. Performance Specification Test Date: 7/28/05
7. Continuous Monitor Comment: Stack COMS	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 9__ of 11_

1. Parameter Code: TEMP	2. Pollutant(s): Baghouse inlet temperature
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: Thermo Fisher Scientific Model Number: SV100-100-123-000-00	Serial Number: D08DA001
5. Installation Date:	6. Performance Specification Test Date: NA
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 10_ of 11_

1. Parameter Code: Steam load	2. Pollutant(s): Steam load
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: Odessa Model Number: DSM-3260	Serial Number: 105037
5. Installation Date:	6. Performance Specification Test Date: NA
7. Continuous Monitor Comment:	

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 11_ of 11_

1. Parameter Code: Carbon feed rate	2. Pollutant(s): carbon feed rate
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information... Manufacturer: H2NS Inc. Model Number: CPP4794	Serial Number: 104507
5. Installation Date: 11/15/10	6. Performance Specification Test Date: NA
7. Continuous Monitor Comment:	

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: _____ ☒ Previously Submitted, Date May 2011

2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: _____ ☒ Previously Submitted, Date May 2011

3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: _____ ☒ Previously Submitted, Date May 2011

4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: _____ ☒ Previously Submitted, Date May 2011
   ☐ Not Applicable (construction application)

5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: _____ ☒ Previously Submitted, Date May 2011
   ☐ Not Applicable

6. Compliance Demonstration Reports/Records:
   ☐ Attached, Document ID: _____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☒ Previously Submitted, Date: 3-2-12
   Test Date(s)/Pollutant(s) Tested: January 2012/ PM, Pb, Cd, Hg, HCl, CO, SO_2, NOx, VE, FE
   ☐ To be Submitted, Date (if known): _____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☐ Not Applicable

   Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.

7. Other Information Required by Rule or Statute:
   ☐ Attached, Document ID: _____ ☒ Not Applicable

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications *NOT APPLICABLE*

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)): ☐ Attached, Document ID: _____ ☒ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) ☐ Attached, Document ID: _____ ☒ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: ☐ Attached, Document ID: _____
2. Compliance Assurance Monitoring: ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Alternative Methods of Operation: ☐ Attached, Document ID: _____ ☒ Not Applicable
4. Alternative Modes of Operation (Emissions Trading): ☐ Attached, Document ID: _____ ☒ Not Applicable

Additional Requirements Comment

See Summary Report for stack test results.

EMISSIONS UNIT INFORMATION
Section [3] of [4]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

   [x] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

   [ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

   [x] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

   [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

   [ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:
   Carbon silo

3. Emissions Unit Identification Number: 003

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49
A			

8. Federal Program Applicability: (Check all that apply)

   [ ] Acid Rain Unit

   [ ] CAIR Unit

9. Package Unit:
   Manufacturer: Model Number:

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description: Fabric Filter - Low Temperature (T < 180F)
2. Control Device or Method Code: 018

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: see comment below	
2. Maximum Production Rate:	
3. Maximum Heat Input Rate: million Btu/hr	
4. Maximum Incineration Rate: pounds/hr tons/day	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8760 hours/year

6. Operating Capacity/Schedule Comment:

The silo is expected to be filled with no more than 1 truck monthly. Each truck holds approximately 20 tons. Each transfer of carbon from the truck into the silo may take up to 4 hours.

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Carbon Silo	2. Emission Point Type Code:1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Carbon silo		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
5. Discharge Type Code: H	6. Stack Height: 53 feet	7. Exit Diameter: 0.8 feet
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 650 acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):	14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1_ of 1_

1. Segment Description (Process/Fuel Type): Activated Carbon		
2. Source Classification Code (SCC): 39999994	3. SCC Units: pounds	
4. Maximum Hourly Rate: 20,000	5. Maximum Annual Rate: 480,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Maximum Hourly Rate calculated based on truck unloading in 2 hours (it may take up to 4 hours) Maximum Annual Rate calculated based 12 truck unloadings.		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control:
3. Potential Emissions: 0.1 lb/hour 0.438 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 0.1 lb/hr Reference: AC35-264176 permit allowable	7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: tons/year = 0.1 * 8760 / 2000 = 0.438	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1_ of 1_

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.1 lb/hr	4. Equivalent Allowable Emissions: 0.1 lb/hour 0.438 tons/year
5. Method of Compliance: Annual VE test	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of ___

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of ___

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1_ of 1___

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: [x] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual VE test	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation __ of ____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

NOT APPLICABLE

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: _____ ☒ Previously Submitted, Date May 2011

2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: _____ ☒ Previously Submitted, Date May 2011

3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: _____ ☒ Previously Submitted, Date May 2011

4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: _____ ☒ Previously Submitted, Date May 2011
   ☐ Not Applicable (construction application)

5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID: _____ ☒ Previously Submitted, Date May 2011
   ☐ Not Applicable

6. Compliance Demonstration Reports/Records:

☐ Attached, Document ID: _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☒ Previously Submitted, Date: 3/2/12

Test Date(s)/Pollutant(s) Tested: Jan 2012/VE

_____

☐ To be Submitted, Date (if known):_____

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ Not Applicable

Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.

7. Other Information Required by Rule or Statute:

☐ Attached, Document ID: _____ ☒ Not Applicable

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)): ☐ Attached, Document ID: _____ ☒ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) ☐ Attached, Document ID: _____ ☒ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: ☐ Attached, Document ID:
2. Compliance Assurance Monitoring: ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Alternative Methods of Operation: ☐ Attached, Document ID: _____ ☒ Not Applicable
4. Alternative Modes of Operation (Emissions Trading): ☐ Attached, Document ID: _____ ☒ Not Applicable

Additional Requirements Comment

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

   [x] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

   [ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

   [x] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

   [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

   [ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:
   Emergency diesel-fired reciprocating internal combustion engine (RICE)

3. Emissions Unit Identification Number: 004

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49
A			

8. Federal Program Applicability: (Check all that apply)

   [ ] Acid Rain Unit

   [ ] CAIR Unit

9. Package Unit:
   Manufacturer: Caterpillar Model Number: 3208

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

Existing Emergency diesel-fired reciprocating internal combustion engine (RICE) is added as a new emission unit 004 due to recently promulgated NESHAP standards.

Emissions Unit Control Equipment/Method: Control _ of __

1. Control Equipment/Method Description:
2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control __ of __

1. Control Equipment/Method Description:
2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control __ of __

1. Control Equipment/Method Description:
2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control __ of __

1. Control Equipment/Method Description:
2. Control Device or Method Code:

B. EMISSIONS UNIT CAPACITY INFORMATION
(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: NA	
2. Maximum Production Rate: NA	
3. Maximum Heat Input Rate: NA	
4. Maximum Incineration Rate: pounds/hr tons/day	NA
5. Requested Maximum Operating Schedule: NA hours/day weeks/year	 days/week hours/year
6. Operating Capacity/Schedule Comment: The Emergency diesel-fired reciprocating internal combustion engine (RICE) regulatory standards are based on the engine horse power rating. The unit is rated at 185 horse power.	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Emergency diesel RICE	2. Emission Point Type Code:1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA		
5. Discharge Type Code: NA	6. Stack Height: NA feet	7. Exit Diameter: NA feet
8. Exit Temperature: NA °F	9. Actual Volumetric Flow Rate: NA acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):	14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1_ of 1_

1. Segment Description (Process/Fuel Type): Diesel		
2. Source Classification Code (SCC): NA	3. SCC Units: pounds	
4. Maximum Hourly Rate: NA	5. Maximum Annual Rate: NA	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: The Emergency diesel-fired (RICE) regulatory standards are based on the engine horse power rating.		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NA			

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: NA	2. Total Percent Efficiency of Control: NA
3. Potential Emissions: NA lb/hour NA tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: NA Reference:	7. Emissions Method Code: NA
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment: The Emergency diesel-fired (RICE) regulatory standards are work practices only. See Additional Requirements Comment	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS *NOT APPLICABLE*

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of ___

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: lb/hr	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of ___

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of ___

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION
Section [4] of [4]

G. VISIBLE EMISSIONS INFORMATION *NOT APPLICABLE*

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation __ of ___

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: ☐ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation __ of ___

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: ☐ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION
Section [4] of [4]

I. EMISSIONS UNIT ADDITIONAL INFORMATION *NOT APPLICABLE*

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
☐ Attached, Document ID:_ ☐ Previously Submitted, Date _____

2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
☐ Attached, Document ID:_____ ☐ Previously Submitted, Date _____

3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
☐ Attached, Document ID:_ ☐ Previously Submitted, Date _____

4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
☒ Not Applicable (construction application)

5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
☒ Not Applicable

6. Compliance Demonstration Reports/Records:

☐ Attached, Document ID: _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ Previously Submitted, Date: _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ To be Submitted, Date (if known):_____

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ Not Applicable

Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.

7. Other Information Required by Rule or Statute:

☐ Attached, Document ID: _____ [x] Not Applicable

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)):
   ☐ Attached, Document ID: _____ ☒ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.):
   ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)
   ☐ Attached, Document ID: _____ ☒ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements:
   ☐ Attached, Document ID: _____
2. Compliance Assurance Monitoring:
   ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Alternative Methods of Operation:
   ☐ Attached, Document ID: _____ ☒ Not Applicable
4. Alternative Modes of Operation (Emissions Trading):
   ☐ Attached, Document ID: _____ ☒ Not Applicable

Additional Requirements Comment

40CFR63, Subpart ZZZZ:

Existing stationary emergency CI RICE less than or equal to 500 HP located at major sources are subject to the following work practices:
• change oil and filter every 500 hours of operation or annually, whichever comes first, except that sources can extend the period for changing the oil if the oil is part of an oil analysis program as discussed below and none of the condemning limits are exceeded;
• inspect air cleaner every 1000 hours of operation or annually, whichever comes first; and
• inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
• install a non-resettable hour meter if one is not already installed.
• Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
• Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions.

APPENDIX C

REQUESTED CHANGE TO TITLE V PERMIT 0690046

Covanta Lake requests that the Department revise Title V permit conditions **A.5**(g) and **A42**.c by deleting the language limiting non-MSW material received as segregated loads and burned at the facility to 5%.

Covanta Lake also requests the Department replaces Title V permit condition **A.5**(h) with one that authorizes acceptance and processing of non-hazardous solid and liquid waste.

In support of this request, the permittee is attaching a copy of HB 503, Page 23 of 41.

Section 17. Subsections (1), (2), and (3) of section 403.707, Florida Statutes, are amended to read:

403.707 Permits.—

(1) A solid waste management facility may not be operated, maintained, constructed, expanded, modified, or closed without an appropriate and currently valid permit issued by the department. The department may by rule exempt specified types of facilities from the requirement for a permit under this part if it determines that construction or operation of the facility is not expected to create any significant threat to the environment or public health. For purposes of this part, and only when specified by department rule, a permit may include registrations as well as other forms of licenses as defined in s. 120.52. Solid waste construction permits issued under this section may include any permit conditions necessary to achieve compliance with the recycling requirements of this act. The department shall pursue reasonable timeframes for closure and construction requirements, considering pending federal requirements and implementation costs to the permittee. The department shall adopt a rule establishing performance standards for construction and closure of solid waste management facilities. The standards shall allow flexibility in design and consideration for site-specific characteristics. For the purpose of permitting under this chapter, the department shall allow waste-to-energy facilities to maximize acceptance and processing of nonhazardous solid and liquid waste.

(2) Except as provided in s. 403.722(6), a permit under this section is not required for the following~~, if the activity~~