

The Harrisburg Authority
Harrisburg Resource Recovery Facility
Monthly Operating Report
February 2011

Prepared by Covanta Harrisburg, Inc.

February 1, 2011 to February 28, 2011

Table of Contents

1.0 Summary

2.0 Production and Performance Summary

3.0 O & M Activities

4.0 Safety and Environmental

5.0 MBE/WBE Participation

1.0 Summary

This Harrisburg Resources Recovery Operating Report covers the period February 1, 2011 to February 28th, 2011.

WASTE VOLUMES:

- Waste volume received for February was 23,528 tons or 1,069 tons per workday.
- Volume processed by the facility for February was 22,418 tons or 801 tons per day.
- Long-haul spot waste deliveries for February were 9,626 tons or 40% of the total volume received.

Efforts continue to optimize pricing for waste deliveries for the facility.

ENERGY SALES:

8,108 MWs of electric were sold on to the PJM grid. Day Ahead pricing averaged \$42.14 per MW and Real Time pricing averaged \$43.68 per MW.

OUTAGE ACTIVITY:

Work continued on Unit #1's scheduled outage that was started in January. Unit #1 remained in standby mode for 50.5 hours due to low refuse inventory. Unit #2 was offline 52.0 hrs for a combustion air fan motor failure.

COMMUNITY ACTIVITY (Preceding 6 months):

- Currently assisting with the planning of Youth Day of Caring event for South Allison Hill.
- Working with several school districts on Earth Day projects.
- Hams were donated to several food banks during December.
- Donated backpacks to back to school programs organized by several local churches
- Several EITC scholarships were awarded to Harrisburg area students.
- Covanta Harrisburg continues to support the fund raising activities of Centenary UM Church, Steelton, PA.

2.0 Production and Performance Summary:

HARRISBURG RESOURCE RECOVERY FACILITY Production and Performance Summary

From: [01 February 2011](#) To [28 February 2011](#)

DESIGN DATA	No. Operating Units		3
Refuse (TPD)	800	HHV (Btu/lb)	5,200
Steam (lb/hr)	205,710	Turbine (MW)	20.843
Steam Press (psig)	600	Stm Temp (deg F)	750
Gross KWH/Ton	560	Net KWH/Ton	470

PRODUCTION	UNITS	ACTUAL PRODUCTION VALUES		
Refuse Received	Tons	23,528	840	TPD
Non-Processible Waste	Tons	286	10	TPD
Refuse Processed	Tons	22,418	801	TPD
Supplemental Waste	Tons	0	0.0	% of Refuse
Ash	Tons	7,044	31.4	% of Refuse
Ferrous	Tons	459	2.0	% of Refuse
Steam	klbs	133,809	96.8	% of MCR
Steam Exported	klbs	0	0.0	Lbs Steam/Ton
Gross Electric	MWH	10,472	467.1	KWH/Ton
Net Electric	MWH	8,108	361.7	KWH/Ton

UTILITIES	UNITS	ACTUAL	UTILITY PER TON OF REFUSE	
In-plant Power	MWH	2,364	105.5	KWH/Ton
Purchased Power	MWH	0	0.0	KWH/Ton
Aux Fuel Oil	kgals	0.00	0.0	Gal/Ton
Aux Natural Gas	kCuFt	2,217	98.9	CuFt/Ton
Waste Water	kgals	0	0.0	Gal/Ton
Make-up	kgals	772	34.4	Gal/Ton
Make-up	% of Steam	4.81		
Potable Water	kgals	11,350	506.3	Gal/Ton
Hydrated Lime	Tons	434	38.7	Lbs/Ton
Urea	Gals	8,686	0.39	Gal/Ton
Carbon	Tons	21	1.9	Lbs/Ton
PERFORMANCE	UNITS	CALCULATED	TUBE LEAK INCIDENTS	
Refuse HHV	Btu/lb	4,752	Monthly	YTD
Refuse Processed	Ref Tons	20,487	0	0
Refuse Processed	Ref TPD	732		
Gross Energy Rec.	KWH/Ref Ton	511.2		
In-plant Elec.	KWH/Ref Ton	115.4		

AVAILABILITY	UNITS	MONTHLY AVAIL.	YTD AVAIL.	MONTHLY TIME ON-LINE	YTD TIME ON-LINE
Boiler 1	%	79.5%	86.9%	71.9%	81.0%
Boiler 2	%	92.3%	92.6%	92.3%	92.6%
Boiler 3	%	100.0%	95.8%	100.0%	95.8%
Avg. Boiler Avail.	%	90.6%	91.7%	88.1%	89.8%
Turbine	%	100.0%	100.0%	100.0%	100.0%

3.0 O&M Activities:

SCHEDULED OUTAGES:

Unit #1's February outage was completed. Work performed included 110 sq/ft of inconel overlay to the front wall of the furnace and 100 sq/ft of inconel overlay to the furnace tubes.

NON-SCHEDULED OUTAGES:

- Boiler #1 was remained offline for 138 hours due to low refuse inventory.
- Boiler #2 was taken offline for 53.4 hours due to a failure of the Combustion Air fan motor.

4.0 Safety and Environmental:

0 OSHA recordable accidents.

The facility experienced no (0) reportable and zero (0) reportable exempt air emission permit limit exceedance for CO during the month of February 2011.

5.0 MBE/WBE Participation

As February 28th there were Forty Seven (47) workers employed by Covanta at the facility.

City Residents 14 % Total City Employees			Minority Employees 23% Total Employees			Women 8% Total Employees		
Afro-American	5	72 %	Afro-American	6	50 %	Afro-American	1	25 %
Caucasian	1	14 %	Female	4	40 %	Caucasian	3	75 %
Hispanic	1	14 %	Hispanic	1	10 %			
TOTAL # City Residents	7	100%	TOTAL # Minority Employ.	11	100%	TOTAL # Women	4	100%