

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

Prepared by Covanta Harrisburg, Inc.

March 1st 2011 to March 31st 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 March 1st to March 31st, 2011.

WASTE VOLUMES:

- Waste volume received for March was 29,622 tons or 1,184 tons per workday.
- Volume processed by the facility for March was 26,638 tons or 859 tons per day.
- Long-haul spot waste deliveries for March were 10,836 tons or 37% of the total volume received.

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

ENERGY SALES:

8,837 MWs of electric were sold on to the PJM grid. Day Ahead pricing averaged \$39.84 per MW and Real Time pricing averaged \$39.45 per MW.

OUTAGE ACTIVITY:

There was a schedule outage on Unit #2 in March. The primary focus of this outage was to rebuild and reconfigure the Ash Transition Chute.

COMMUNITY ACTIVITY (Preceding 6 months):

- Currently assisting with the planning of Youth Day of Caring event for South Allison Hill.
- Hams were donated to several food banks during December.
- 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 March 2011](#) To: [31 March 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	29,622	956	TPD
Non-Processible Waste	Tons	1,012	33	TPD
Refuse Processed	Tons	26,638	859	TPD
Supplemental Waste	Tons	0	0.0	% of Refuse
Ash	Tons	7,570	28.4	% of Refuse
Ferrous	Tons	566	2.1	% of Refuse
Steam	klbs	147,512	96.4	% of MCR
Steam Exported	klbs	0	0.0	Lbs Steam/Ton
Gross Electric	MWH	11,420	428.7	KWH/Ton
Net Electric	MWH	8,837	331.7	KWH/Ton

UTILITIES	UNITS	ACTUAL	UTILITY PER TON OF REFUSE	
In-plant Power	MWH	2,583	97.0	KWH/Ton
Purchased Power	MWH	0	0.0	KWH/Ton
Aux Fuel Oil	kgals	0.00	0.0	Gal/Ton
Aux Natural Gas	kCuFt	3,091	116.0	CuFt/Ton
Waste Water	kgals	0	0.0	Gal/Ton
Make-up	kgals	907	34.0	Gal/Ton
Make-up	% of Steam	5.12		
Potable Water	kgals	12,850	482.4	Gal/Ton
Hydrated Lime	Tons	424	31.8	Lbs/Ton
Urea	Gals	8,848	0.33	Gal/Ton
Carbon	Tons	13	1.0	Lbs/Ton
PERFORMANCE	UNITS	CALCULATED	TUBE LEAK INCIDENTS	
Refuse HHV	Btu/lb	4,361	Monthly	YTD
Refuse Processed	Ref Tons	22,340	0	0
Refuse Processed	Ref TPD	721		
Gross Energy Rec.	KWH/Ref Ton	511.2		
In-plant Elec.	KWH/Ref Ton	115.6		

AVAILABILITY	UNITS	MONTHLY AVAIL.	YTD AVAIL.	MONTHLY TIME ON-LINE	YTD TIME ON-LINE
Boiler 1	%	91.8%	88.6%	91.8%	84.7%
Boiler 2	%	76.5%	87.0%	76.5%	87.0%
Boiler 3	%	91.0%	94.1%	91.0%	94.1%
Avg. Boiler Avail.	%	86.4%	89.9%	86.4%	88.6%
Turbine	%	100.0%	100.0%	100.0%	100.0%

3.0 O&M Activities:

SCHEDULED OUTAGES:

A scheduled minor boiler outage was performed on unit #2. The major focus on the outage was on the rebuilding of the transition chute in order to eliminate chute plugs. Additionally, The airheater on this boiler continues to deteriorate rapidly, with 66 tubes being blanked due to their condition and approximately 32 tubes being removed in order to access the airheater roof section in order to plate over the damaged portions.

NON-SCHEDULED OUTAGES:

- Boiler #1 was taken offline for 61.1 hours due to a baghouse bag failure.
- Boiler #2 was taken offline for 15.7 hours due to an ash roller jam.
- Boiler #3 was taken offline for 67.2 hours for a baghouse failure and an ash roller jam.

4.0 Safety and Environmental:

0 OSHA recordable accidents.

The facility experienced no (0) reportable and no (0) reportable exempt air emission permit limit exceedances during the month of March 2011.

5.0 MBE/WBE Participation

As March 31st there were Forty Seven (47) workers employed by Covanta at the facility.

City Residents 14 % Total City Employees			Minority Employees 25% Total Employees			Women 8% Total Employees		
Afro-American	5	72 %	Afro-American	7	58 %	Afro-American	1	25 %
Caucasian	1	14 %	Female	4	34 %	Caucasian	3	75 %
Hispanic	1	14 %	Hispanic	1	8 %			
TOTAL # City Residents	7	100%	TOTAL # Minority Employ.	12	100%	TOTAL # Women	4	100%