

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

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April 1st 2011 to April 30th 2011

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1.0 Summary

This Harrisburg Resources Recovery Operating Report covers the period April 1st to April 30th, 2011.

WASTE VOLUMES:

- Waste volume received for April was 26,367 tons or 1,122 tons per workday.
- Volume processed by the facility for April was 25,818 tons or 861 tons per day.
- Long-haul spot waste deliveries for April were 6,745 tons or 26% of the total volume received.

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

ENERGY SALES:

8,832 MWs of electric were sold on to the PJM grid. Day Ahead pricing averaged \$40.64 per MW and Real Time pricing averaged \$41.96 per MW.

OUTAGE ACTIVITY:

There was a scheduled outage on Unit #3 in April. The primary focus of this outage was to rebuild the lower Transition Chute. Additionally, a complete baghouse bag and cage change out was completed on Unit #1

COMMUNITY ACTIVITY (Preceding 6 months):

- Participated in the Youth Day of Caring event for South Allison Hill.
- Donated supplies to the Harrisburg Multicultural Event.
- Sponsored several Earth Day events at several local school districts
- 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 April 2011](#) To [30 April 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	26,367	879	TPD
Non-Processible Waste	Tons	994	33	TPD
Refuse Processed	Tons	25,818	861	TPD
Supplemental Waste	Tons	0	0.0	% of Refuse
Ash	Tons	7,865	30.5	% of Refuse
Ferrous	Tons	555	2.1	% of Refuse
Steam	klbs	145,812	98.4	% of MCR
Steam Exported	klbs	0	0.0	Lbs Steam/Ton
Gross Electric	MWH	11,245	435.5	KWH/Ton
Net Electric	MWH	8,832	342.1	KWH/Ton

UTILITIES	UNITS	ACTUAL	UTILITY PER TON OF REFUSE	
In-plant Power	MWH	2,413	93.5	KWH/Ton
Purchased Power	MWH	0	0.0	KWH/Ton
Aux Fuel Oil	kgals	0.00	0.0	Gal/Ton
Aux Natural Gas	kCuFt	2,890	119.0	CuFt/Ton
Waste Water	kgals	0	0.0	Gal/Ton
Make-up	kgals	769	29.8	Gal/Ton
Make-up	% of Steam	4.39		
Potable Water	kgals	13,481	522.2	Gal/Ton
Hydrated Lime	Tons	412	31.9	Lbs/Ton
Urea	Gals	8,917	0.35	Gal/Ton
Carbon	Tons	16	1.3	Lbs/Ton
PERFORMANCE	UNITS	CALCULATED	TUBE LEAK INCIDENTS	
Refuse HHV	Btu/lb	4,488	Monthly	YTD
Refuse Processed	Ref Tons	22,283	0	0
Refuse Processed	Ref TPD	743		
Gross Energy Rec.	KWH/Ref Ton	504.6		
In-plant Elec.	KWH/Ref Ton	108.3		

AVAILABILITY	UNITS	MONTHLY AVAIL.	YTD AVAIL.	MONTHLY TIME ON-LINE	YTD TIME ON-LINE
Boiler 1	%	88.7%	88.6%	88.7%	85.7%
Boiler 2	%	100.0%	90.3%	100.0%	90.3%
Boiler 3	%	76.5%	89.7%	76.5%	89.7%
Avg. Boiler Avail.	%	88.4%	89.5%	88.4%	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 #3. The major focus of the outage was on the rebuilding of the lower transition chute in order to eliminate chute plugs. Work also included 180 sq/ft of refractory repairs and the replacement of various start-up vent isolation and bypass valves that had failed in the open position.

NON-SCHEDULED OUTAGES:

- Boiler #1 was taken offline for 82 hours for a complete baghouse bag and cage change out. At this point approximately 75% of the Unit #1 cold bank tubes have been plugged. If more tubes are plugged in the future, it may not be possible to maintain the baghouse inlet temperatures required by the facility permit.

4.0 Safety and Environmental:

0 OSHA recordable accidents.

The facility experienced one (1) reportable for CO on Unit 1 and no (0) reportable exempt air emission permit limit exceedances during the month of April 2011.

5.0 MBE/WBE Participation

As April 30th 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%