COVANTA HUDSON VALLEY

Part C Section 11 Items Requested by EPA - January 2010 to December 2010

Item ID	Parameter	Units	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Tot/Avg
Item a)	Boiler 1 Steam	klbs	35,180	29,162	25,741	36,427	35,711	29,689	35,006	24,949	28,625	34,521	34,802	34,189	384,002
	Boiler 1 Capacity Factor Note 1	%	81.7%	74.9%	59.8%	87.4%	82.9%	71.2%	81.3%	57.9%	68.7%	80.1%	83.5%	79.4%	75.7%
	Boiler 2 Steam	klbs	37,951	28,647	23,807	37,773	39,549	32,068	27,045	34,191	25,875	31,228	32,476	36,274	386,884
	Boiler 2 Capacity Factor Note 1	%	88.1%	73.6%	55.3%	90.6%	91.8%	76.9%	62.8%	79.4%	62.1%	72.5%	77.9%	84.2%	76.3%
	Total Facility Steam	klbs	73,131	57,809	49,548	74,200	75,260	61,757	62,051	59,140	54,500	65,749	67,278	70,463	770,886
	Total Facility Capacity Factor Note 1	%	84.9%	74.3%	57.5%	89.0%	87.4%	74.1%	72.0%	68.6%	65.4%	76.3%	80.7%	81.8%	76.0%
Items b) and c)	Boiler 1 Time Online	hrs	715	616	554	720	700	645	703	523	574	653	670	680	7,753
		%	96.1%	91.7%	74.5%	100.0%	94.1%	89.6%	94.4%	70.4%	79.7%	87.7%	93.1%	91.4%	88.5%
	Boiler 2 Time Online	hrs	744	591	532	720	739	666	578	716	618	612	652	726	7,891
		%	100.0%	87.9%	71.5%	100.0%	99.3%	92.4%	77.6%	96.2%	85.8%	82.2%	90.6%	97.5%	90.1%
	ALL Boiler Time Online	hrs	1,458.9	1,206.9	1,086.5	1,440.0	1,439.0	1,310.3	1,280.4	1,239.0	1,191.6	1,264.1	1,322.0	1,405.7	15,644.4
		%	98.0%	89.8%	73.0%	100.0%	96.7%	91.0%	86.0%	83.3%	82.8%	85.0%	91.8%	94.5%	89.3%
	Turbine 1 Time Online	hrs	744.0	672.0	744.0	720.0	742.0	707.9	655.4	732.3	657.2	694.3	705.7	719.1	8,493.9
		%	100.0%	100.0%	100.0%	100.0%	99.7%	98.3%	88.1%	98.4%	91.3%	93.3%	98.0%	96.7%	97.0%
Item d)	Refuse Processed	Tons	13,998	12,778	11,857	13,431	14,214	13,063	11,827	12,238	10,900	12,014	12,788	12,292	151,400
Item e)	Refuse HHV Note 2	Btu/lb	4,046	3,528	3,476	4,383	4,162	3,671	4,136	3,720	3,823	4,164	4,109	4,418	3,975
Item f)	Gross Electric	MWH	5,768	4,491	3,762	5,994	5,709	4,653	4,281	4,396	4,252	5,490	5,616	5,654	60,066
	Net Electric	MWH	4,876	3,702	2,718	5,046	4,731	3,720	3,341	3,325	3,173	4,326	4,349	4,317	47,624
Item g)	Gross Heat Rate	btu/kwhr	19,639	20,074	21,911	19,641	20,723	20,610	22,850	20,710	19,600	18,222	18,715	19,212	20,041
	Net Heat Rate	btu/kwhr	23,232	24,352	30,327	23,331	25,006	25,779	29,279	27,380	26,266	23,126	24,167	25,162	25,276

Item h) Downtime Explanations		Hrs	CAUSE	Hrs	CAUSE	Hrs	CAUSE
796.39	Scheduled Boiler Outage hrs	341.81	[redacted]	60.35	[redacted]	2.4	[redacted]
986.51	Unscheduled Downtime hrs	89.60		33.16		119.3	
1782.9	Total Downtime Hrs	2.25		20.68		12.5	
		58.20		14.8		33.61	
		20.00		135.77		28.38	
		11.90		1.8			

Item i)	Mwhrs Lost due to Planned Outage Note 3	2,835
Item j)	Total Mwhrs Lost due to UnPlanned Outages	3,512
	Lost Mwhrs Unplanned by Area	
	MWC:	*2,969*
	Turbine Generator:	
	Pollution Control:	
	Balance of Plant:	*436*
	Misc:	*107*

NOTES

Note 1 Capacity Factor based on % of design Steam Flow of 57.9 klbs/hr per boiler

Note 2 Fuel Supply is Muncipal Solid Waste - No Analysis available of constituents (moisture, sulfur, ash). HHV estimated Monthly and reported in table

Note 3 Lost Mwhrs based on 3.56 Mwhrs (net) per Lost Boiler hr, 7.12 Mwhrs/Turbine Hour

COVANTA HUDSON VALLEY

Part C Section 11 Items Requested by EPA - January 2011 to December 2011

Item ID	Parameter	Units	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Tot/Avg
Item a)	Boiler 1 Steam	klbs	34,147	30,295	23,730	35,121	37,403	31,409	33,028	28,430	25,452	37,661	33,961	34,788	385,425
	Boiler 1 Capacity Factor Note 1	%	79.3%	77.9%	55.1%	84.2%	86.8%	75.3%	76.7%	66.0%	61.1%	87.4%	81.5%	80.8%	76.0%
	Boiler 2 Steam	klbs	33,567	29,711	24,014	33,272	35,976	35,168	34,357	30,607	24,754	30,448	34,991	34,260	381,125
	Boiler 2 Capacity Factor Note 1	%	77.9%	76.4%	55.7%	79.8%	83.5%	84.4%	79.8%	71.1%	59.4%	70.7%	83.9%	79.5%	75.1%
	Total Facility Steam	klbs	67,714	60,006	47,744	68,393	73,379	66,577	67,385	59,037	50,206	68,109	68,952	69,048	766,550
	Total Facility Capacity Factor Note 1	%	78.6%	77.1%	55.4%	82.0%	85.2%	79.9%	78.2%	68.5%	60.2%	79.1%	82.7%	80.1%	75.6%
Items b) and c)	Boiler 1 Time Online	hrs	687.2	640.6	516.1	699.0	744.0	682.5	710.9	683.8	592.7	744.0	682.1	744.0	8,127
		%	92.4%	95.3%	69.4%	97.1%	100.0%	94.8%	95.6%	91.9%	82.3%	100.0%	94.7%	100.0%	92.8%
	Boiler 2 Time Online	hrs	702.4	630.0	525.5	678.8	734.0	716.3	715.8	743.1	590.3	679.3	691.0	714.3	8,121
		%	94.4%	93.8%	70.6%	94.3%	98.7%	99.5%	96.2%	99.9%	82.0%	91.3%	96.0%	96.0%	92.7%
	ALL Boiler Time Online	hrs	1,389.6	1,270.6	1,041.6	1,377.8	1,478.0	1,398.8	1,426.7	1,426.9	1,183.0	1,423.3	1,373.1	1,458.3	16,247.6
		%	93.4%	94.5%	70.0%	95.7%	99.3%	97.1%	95.9%	95.9%	82.2%	95.6%	95.4%	98.0%	92.7%
	Turbine 1 Time Online	hrs	742.1	662.5	640.8	712.9	741.7	714.2	732.0	729.6	715.3	735.0	716.4	740.4	8,582.9
		%	99.7%	98.6%	86.1%	99.0%	99.7%	99.2%	98.4%	98.1%	99.3%	98.8%	99.5%	99.5%	98.0%
Item d)	Refuse Processed	Tons	13,946	13,606	11,437	13,677	13,975	13,867	13,233	13,375	11,341	13,532	13,772	14,126	159,887
Item e)	Refuse HHV Note 2	Btu/lb	3,783	3,449	3,126	3,647	3,998	3,695	3,905	3,419	3,375	3,810	3,815	3,787	3,663
Item f)	Gross Electric	MWH	5,484	4,879	3,721	5,719	6,240	5,463	5,454	4,822	3,956	5,575	5,652	5,818	62,783
	Net Electric	MWH	4,107	3,644	2,649	4,325	4,723	4,003	3,979	3,336	2,680	4,163	4,272	4,316	46,197
Item g)	Gross Heat Rate	btu/kwhr	19,239	19,237	19,214	17,443	17,908	18,761	18,951	18,969	19,348	18,496	18,593	18,388	18,658
	Net Heat Rate	btu/kwhr	25,689	25,756	26,990	23,065	23,660	25,603	25,977	27,418	28,560	24,769	24,600	24,787	25,357

Item h) Downtime Explanations		Hrs	CAUSE	Hrs	CAUSE	Hrs	CAUSE
765.51	Scheduled Boiler Outage hrs	212.42	[redacted]	23.3	[redacted]	65.7	[redacted]
507.08	Unscheduled Downtime hrs	41		12.33		30.85	
1272.59	Total Downtime Hrs	65.75		30.25		5.64	
		2		17.84			

Item i)	Mwhrs Lost due to Planned Outage Note 3	2,725
Item j)	Total Mwhrs Lost due to UnPlanned Outages	1,805
	Lost Mwhrs Unplanned by Area	
	MWC:	*1,421*
	Turbine Generator:	*0*
	Pollution Control:	*0*
	Balance of Plant:	*364*
	Misc:	*20*

NOTES

Note 1 Capacity Factor based on % of design Steam Flow of 57.9 klbs/hr per boiler

Note 2 Fuel Supply is Muncipal Solid Waste - No Analysis available of constituents (moisture, sulfur, ash). HHV estimated Monthly and reported in table

Note 3 Lost Mwhrs based on 3.56 Mwhrs (net) per Lost Boiler hr, 7.12 Mwhrs/Turbine Hour

COVANTA HUDSON VALLEY

Part C Section 11 Items Requested by EPA - January 2012 to December 2012

Item ID	Parameter	Units	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Tot/Avg
Item a)	Boiler 1 Steam	klbs	35,588	32,789	27,848	35,744	35,139	35,215	33,201	30,278	27,267	30,455	32,186	31,611	387,321
	Boiler 1 Capacity Factor Note 1	%	82.6%	81.4%	64.6%	85.7%	81.6%	84.5%	77.1%	70.3%	65.4%	70.7%	77.2%	73.4%	76.4%
	Boiler 2 Steam	klbs	32,449	25,988	34,134	33,320	35,897	35,884	34,765	33,706	28,630	32,875	33,890	29,236	390,774
	Boiler 2 Capacity Factor Note 1	%	75.3%	64.5%	79.2%	79.9%	83.3%	86.1%	80.7%	78.2%	68.7%	76.3%	81.3%	67.9%	77.0%
	Total Facility Steam	klbs	68,037	58,777	61,982	69,064	71,036	71,099	67,966	63,984	55,897	63,330	66,076	60,847	778,095
	Total Facility Capacity Factor Note 1	%	79.0%	72.9%	71.9%	82.8%	82.5%	85.3%	78.9%	74.3%	67.0%	73.5%	79.3%	70.6%	76.7%
Items b) and c)	Boiler 1 Time Online	hrs	706.6	668.5	544.7	686.9	714.0	720.0	697.3	669.0	579.5	680.0	671.6	708.6	8,047
		%	95.0%	96.0%	73.2%	95.4%	96.0%	100.0%	93.7%	89.9%	80.5%	91.4%	93.3%	95.2%	91.6%
	Boiler 2 Time Online	hrs	706.8	598.1	653.8	661.1	712.7	720.0	744.0	714.8	580.8	706.2	697.5	643.1	8,139
		%	95.0%	85.9%	87.9%	91.8%	95.8%	100.0%	100.0%	96.1%	80.7%	94.9%	96.9%	86.4%	92.7%
	ALL Boiler Time Online	hrs	1,413.4	1,266.6	1,198.5	1,348.0	1,426.7	1,440.0	1,441.3	1,383.8	1,160.3	1,386.2	1,369.1	1,351.7	16,185.5
		%	95.0%	91.0%	80.5%	93.6%	95.9%	100.0%	96.9%	93.0%	80.6%	93.2%	95.1%	90.8%	92.1%
	Turbine 1 Time Online	hrs	735.4	696.0	688.8	713.6	730.8	716.6	738.1	738.3	708.6	725.6	720.0	741.0	8,652.9
		%	98.8%	100.0%	92.6%	99.1%	98.2%	99.5%	99.2%	99.2%	98.4%	97.5%	100.0%	99.6%	98.5%
Item d)	Refuse Processed	Tons	13,806	12,046	12,794	14,004	14,539	14,760	13,545	13,313	11,329	13,178	14,037	13,345	160,696
Item e)	Refuse HHV Note 2	Btu/lb	3,862	3,717	3,649	3,701	3,652	3,613	3,802	3,593	3,686	3,619	3,620	3,516	3,669
Item f)	Gross Electric	MWH	5,661	4,950	5,183	5,850	5,896	5,883	5,316	5,113	4,403	5,349	5,597	5,124	64,325
	Net Electric	MWH	4,254	3,642	3,979	4,494	4,424	4,474	3,908	3,688	3,237	4,073	4,361	3,881	48,415
Item g)	Gross Heat Rate	btu/kwhr	18,839	18,092	18,014	17,717	18,012	18,131	19,373	18,713	18,970	17,833	18,156	18,315	18,331
	Net Heat Rate	btu/kwhr	25,070	24,589	23,465	23,063	24,005	23,841	26,352	25,944	25,803	23,420	23,301	24,181	24,354

Item h) Downtime Explanations

Downtime Breakdown		Hrs	CAUSE	Hrs	CAUSE	Hrs	CAUSE
719.59	Scheduled Boiler Outage hrs	282.76	[redacted]	147.48	[redacted]		
663.06	Unscheduled Downtime hrs	78.1		45.24			
1382.65	Total Downtime Hrs	52.71		46.17			
		10.6					

Item i)	Mwhrs Lost due to Planned Outage Note 3	2,562
Item j)	Total Mwhrs Lost due to UnPlanned Outages	2,360
	Lost Mwhrs Unplanned by Area	
	MWC:	*1,997*
	Turbine Generator:	*0*
	Pollution Control:	*0*
	Balance of Plant:	*0*
	Misc:	*363*

NOTES

Note 1 Capacity Factor based on % of design Steam Flow of 57.9 klbs/hr per boiler

Note 2 Fuel Supply is Muncipal Solid Waste - No Analysis available of constituents (moisture, sulfur, ash). HHV estimated Monthly and reported in table

Note 3 Lost Mwhrs based on 3.56 Mwhrs (net) per Lost Boiler hr, 7.12 Mwhrs/Turbine Hour

COVANTA HUDSON VALLEY

Part C Section 11 Items Requested by EPA - January 2013 to December 2013

Item ID	Parameter	Units	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Tot/Avg
Item a)	Boiler 1 Steam	klbs	30,568	28,382	31,480	23,082	33,522	32,963	32,838	29,951	22,152	34,079	36,316	33,846	369,179
	Boiler 1 Capacity Factor Note 1	%	71.0%	72.9%	73.1%	55.4%	77.8%	79.1%	76.2%	69.5%	53.1%	79.1%	87.1%	78.6%	72.8%
	Boiler 2 Steam	klbs	34,019	27,475	33,772	26,229	37,289	28,855	31,381	26,828	19,659	32,259	35,226	32,879	365,871
	Boiler 2 Capacity Factor Note 1	%	79.0%	70.6%	78.4%	62.9%	86.6%	69.2%	72.8%	62.3%	47.2%	74.9%	84.5%	76.3%	72.1%
	Total Facility Steam	klbs	64,587	55,857	65,252	49,311	70,811	61,818	64,219	56,779	41,811	66,338	71,542	66,725	735,050
	Total Facility Capacity Factor Note 1	%	75.0%	71.8%	75.7%	59.1%	82.2%	74.1%	74.5%	65.9%	50.1%	77.0%	85.8%	77.4%	72.5%
Items b) and c)	Boiler 1 Time Online	hrs	686.2	653.7	690.1	486.2	653.9	690.5	694.8	633.9	497.6	710.7	717.0	722.8	7,837
		%	92.2%	97.3%	92.8%	67.5%	87.9%	95.9%	93.4%	85.2%	69.1%	95.5%	99.6%	97.1%	89.5%
	Boiler 2 Time Online	hrs	741.5	641.2	729.5	550.2	737.0	658.1	744.0	652.2	453.8	694.1	720.0	744.0	8,066
		%	99.7%	95.4%	98.1%	76.4%	99.1%	91.4%	100.0%	87.7%	63.0%	93.3%	100.0%	100.0%	92.1%
	ALL Boiler Time Online	hrs	1,427.7	1,294.9	1,419.6	1,036.4	1,390.9	1,348.6	1,438.8	1,286.1	951.5	1,404.8	1,437.0	1,466.8	15,903.0
		%	96.0%	96.3%	95.4%	72.0%	93.5%	93.7%	96.7%	86.4%	66.1%	94.4%	99.8%	98.6%	90.8%
	Turbine 1 Time Online	hrs	724.9	672.0	744.0	656.3	744.0	104.3	0.0	0.0	313.3	744.0	720.0	744.0	6,166.9
		%	97.4%	100.0%	100.0%	91.2%	100.0%	14.5%	0.0%	0.0%	43.5%	100.0%	100.0%	100.0%	70.4%
Item d)	Refuse Processed	Tons	13,593	12,185	14,339	10,674	14,742	12,640	12,916	11,424	8,840	14,303	13,855	13,848	153,359
Item e)	Refuse HHV Note 2	Btu/lb	3,680	3,554	3,583	3,502	3,696	3,590	3,583	3,615	3,307	3,502	4,258	3,693	3,645
Item f)	Gross Electric	MWH	5,223	4,668	5,469	3,922	5,851	804	0	0	1,822	5,412	5,821	5,278	44,270
	Net Electric	MWH	3,977	3,511	4,125	2,893	4,510	614	0	0	1,339	4,111	4,520	4,006	33,606
Item g)	Gross Heat Rate	btu/kwhr	19,154	18,557	18,791	19,061	18,626	112,872	need data	need data	32,092	18,509	20,268	19,379	25,254
	Net Heat Rate	btu/kwhr	25,155	24,672	24,913	25,840	24,164	147,800			43,668	24,367	26,102	25,533	33,267

Item	Downtime Breakdown	Hrs	CAUSE	Hrs	CAUSE	Hrs	CAUSE
Item h) Downtime Explanations	811.52 Scheduled Boiler Outage hrs	328.46	[redacted]	7.5	[redacted]	10.67	[redacted]
	474.29 Unscheduled Downtime hrs	20.1		3		10.76	
	1285.81 Total Downtime Hrs	27.91		34.5		3.75	
		3.8		23.84			

Item i)	Mwhrs Lost due to Planned Outage Note 3	2,889
Item j)	Total Mwhrs Lost due to UnPlanned Outages	1,688
	Lost Mwhrs Unplanned by Area	
	MWC:	*1,463*
	Turbine Generator:	*0*
	Pollution Control:	*38*
	Balance of Plant:	*150*
	Misc:	*38*

NOTES

Note 1 Capacity Factor based on % of design Steam Flow of 57.9 klbs/hr per boiler

Note 2 Fuel Supply is Muncipal Solid Waste - No Analysis available of constituents (moisture, sulfur, ash). HHV estimated Monthly and reported in table

Note 3 Lost Mwhrs based on 3.56 Mwhrs (net) per Lost Boiler hr, 7.12 Mwhrs/Turbine Hour

COVANTA HUDSON VALLEY

Part C Section 11 Items Requested by EPA - January 2014 to June 2014

Item ID	Parameter	Units	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Tot/Avg
Item a)	Boiler 1 Steam	klbs	31,226	25,594	29,821	33,825	30,241	32,081							182,788
	Boiler 1 Capacity Factor Note 1	%	72.5%	65.8%	69.2%	81.1%	70.2%	77.0%							72.7%
	Boiler 2 Steam	klbs	30,357	26,062	31,386	25,054	32,766	32,084							177,709
	Boiler 2 Capacity Factor Note 1	%	70.5%	67.0%	72.9%	60.1%	76.1%	77.0%							70.7%
	Total Facility Steam	klbs	61,583	51,656	61,207	58,879	63,007	64,165							360,497
	Total Facility Capacity Factor Note 1	%	71.5%	66.4%	71.0%	70.6%	73.1%	77.0%							71.7%
Items b) and c)	Boiler 1 Time Online	hrs	706.7	615.3	662.6	713.3	650.8	695.7							4,044
		%	95.0%	91.6%	89.1%	99.1%	87.5%	96.6%							93.1%
	Boiler 2 Time Online	hrs	708.0	651.0	744.0	567.6	700.1	690.4							4,061
		%	95.2%	96.9%	100.0%	78.8%	94.1%	95.9%							93.5%
	ALL Boiler Time Online	hrs	1,414.7	1,266.3	1,406.6	1,280.9	1,350.9	1,386.1							8,105.5
		%	95.1%	94.2%	94.5%	88.9%	90.8%	96.3%							93.3%
	Turbine 1 Time Online	hrs	732.4	669.8	744.0	707.1	744.0	720.0							4,317.3
		%	98.4%	99.7%	100.0%	98.2%	100.0%	100.0%							99.4%
Item d)	Refuse Processed	Tons	12,882	10,598	12,834	13,113	13,820	13,615							76,862
Item e)	Refuse HHV Note 2	Btu/lb	3,693	3,453	3,643	3,374	3,758	3,608							3,594
Item f)	Gross Electric	MWH	4,659	3,865	4,802	4,681	5,188	5,327							28,522
	Net Electric	MWH	3,452	2,812	3,647	3,618	3,984	4,018							21,531
Item g)	Gross Heat Rate	btu/kwhr	20,419	18,939	19,474	18,903	20,022	18,443							19,369
	Net Heat Rate	btu/kwhr	27,559	26,031	25,641	24,457	26,072	24,451							25,658

Item h) Downtime Explanations

Downtime Breakdown		Hrs	CAUSE	Hrs	CAUSE	Hrs	CAUSE
163.88	Scheduled Boiler Outage hrs	62.25	[redacted]	30.866	[redacted]	92.8326	[redacted]
286.5446	Unscheduled Downtime hrs	21		3.166		14.5	
450.4246	Total Downtime Hrs	17.33		4.25			
		10.75		29.6			

Item i)	Mwhrs Lost due to Planned Outage Note 3	583
Item j)	Total Mwhrs Lost due to UnPlanned Outages	1,020

Lost Mwhrs Unplanned by Area

MWC:	373
Turbine Generator:	0
Pollution Control:	369
Balance of Plant:	227
Misc:	52

NOTES

Note 1 Capacity Factor based on % of design Steam Flow of 57.9 klbs/hr per boiler

Note 2 Fuel Supply is Muncipal Solid Waste - No Analysis available of constituents (moisture, sulfur, ash). HHV estimated Monthly and reported in table

Note 3 Lost Mwhrs based on 3.56 Mwhrs (net) per Lost Boiler hr, 7.12 Mwhrs/Turbine Hour