

## **CCCSD Information Collection Request Source Test for EPA**

Randy Schmidt  
Senior Engineer  
Central Contra Costa Sanitary District  
2/16/2010

See Attached Source Test Report

2/10/2010

**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

Central Contra Costa Sanitary District  
5019 Imhoff Place

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56221

A0907

110039751907

907

Unit ID 1

60 dry tons per day

50.0 dry tons per day

48 dry tons per day

50100515

Waste Disposal - Solid Waste Disposal - Government - Other Incineration - Sludge:  
Multiple Hearth

Feedstock: dried sewage sludge and auxiliary fuel gas for combustion stability. Multiple hearth furnace: 11 hearths, internal top hearth (Hearth 1) afterburner, dry sewage sludge fed to hearth below afterburner (Hearth 2). Dry cyclone scrubber for ash removal, waste heat recovery boiler, wet scrubber Venturi quench followed by two impingement trays, induced draft fan, center shaft cooling air added to flue gas prior to atmospheric discharge to increase exhaust gas bouyancy.

Stack Exit	42	324	0	0	84	240	2	20
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Stack Exit	Carbon Monoxide	Method 10	12	60	0	
Stack Exit	2,3,7,8-TCDD	Method 23	3	360	0	
Stack Exit	1,2,3,7,8-PeCDD	Method 23	3	360	0	
Stack Exit	1,2,3,4,7,8-HxCDD	Method 23	3	360	0	

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Stack Exit	1,2,3,6,7,8-HxCDD	Method 23	3	360	0	
Stack Exit	1,2,3,7,8,9-HxCDD	Method 23	3	360	0	
Stack Exit	1,2,3,4,6,7,8-HpCDD	Method 23	3	360	0	
Stack Exit	OCDD	Method 23	3	360	0	
Stack Exit	2,3,7,8-TCDF	Method 23	3	360	0	
Stack Exit	1,2,3,7,8-PeCDF	Method 23	3	360	0	
Stack Exit	2,3,4,7,8-PeCDF	Method 23	3	360	0	
Stack Exit	1,2,3,4,7,8-HxCDF	Method 23	3	360	0	
Stack Exit	1,2,3,6,7,8-HxCDF	Method 23	3	360	0	
Stack Exit	2,3,4,6,7,8-HxCDF	Method 23	3	360	0	
Stack Exit	1,2,3,7,8,9-HxCDF	Method 23	3	360	0	
Stack Exit	1,2,3,4,6,7,8-HpCDF	Method 23	3	360	0	
Stack Exit	1,2,3,4,7,8,9-HpCDF	Method 23	3	360	0	
Stack Exit	OCDF	Method 23	3	360	0	
Stack Exit	Other TCDD	Method 23	3	360	0	
Stack Exit	Other PeCDD	Method 23	3	360	0	
Stack Exit	Other HxCDD	Method 23	3	360	0	
Stack Exit	Other HpCDD	Method 23	3	360	0	
Stack Exit	Other TCDF	Method 23	3	360	0	
Stack Exit	Other PeCDF	Method 23	3	360	0	
Stack Exit	Other HxCDF	Method 23	3	360	0	
Stack Exit	Other HpCDF	Method 23	3	360	0	
Stack Exit	Other Mono-CBs	Method 23	3	360	0	
Stack Exit	Other Di-CBs	Method 23	3	360	0	
Stack Exit	Other Tri-CBs	Method 23	3	360	0	
Stack Exit	Other Tetra-CBs	Method 23	3	360	0	
Stack Exit	Other Penta-CBs	Method 23	3	360	0	
Stack Exit	Other Hexa-CBs	Method 23	3	360	0	
Stack Exit	Other Hepta-CBs	Method 23	3	360	0	
Stack Exit	Other Octa-CBs	Method 23	3	360	0	
Stack Exit	Other Nona-CBs	Method 23	3	360	0	
Stack Exit	DeCB	Method 23	3	360	0	
Stack Exit	Total PCBs	Method 23	3	360	0	
Stack Exit	Naphthalene**	Method 23	3	360	0	
Stack Exit	2-Methylnaphthalene	Method 23	3	360	0	
Stack Exit	Acenaphthylene**	Method 23	3	360	0	
Stack Exit	Acenaphthene**	Method 23	3	360	0	
Stack Exit	Fluorene**	Method 23	3	360	0	
Stack Exit	Phenanthrene**	Method 23	3	360	0	
Stack Exit	Anthracene**	Method 23	3	360	0	
Stack Exit	Fluoranthene**	Method 23	3	360	0	
Stack Exit	Pyrene**	Method 23	3	360	0	
Stack Exit	Benzo(a)Anthracene*	Method 23	3	360	0	

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Stack Exit	Chrysene*	Method 23	3	360	0	
Stack Exit	Benzo(b)Fluoranthene*	Method 23	3	360	0	
Stack Exit	Benzo(k)Fluoranthene*	Method 23	3	360	0	
Stack Exit	Benzo(e)Pyrene	Method 23	3	360	0	
Stack Exit	Benzo(a)Pyrene*	Method 23	3	360	0	
Stack Exit	Perylene	Method 23	3	360	0	
Stack Exit	Indeno(1,2,3-cd)Pyrene*	Method 23	3	360	0	
Stack Exit	Dibenzo(a,h)Anthracene*	Method 23	3	360	0	
Stack Exit	Benzo(ghi)Perylene**	Method 23	3	360	0	
Stack Exit	Hydrogen Chloride	Method 26A	3	240	0	
Stack Exit	Hydrogen Fluoride	Method 26A	3	240	0	
Stack Exit	Filterable Particulate	OTM - 27/28	3	240	0	
Stack Exit	Inorganic (Aqueous) Condensable Part.	OTM - 27/28	3	240	0	
Stack Exit	Organic Condensable Particulate	OTM - 27/28	3	240	0	
Stack Exit	Total PM2.5	OTM - 27/28	3	240	0	
Stack Exit	Filterable PM2.5	OTM - 27/28	3	240	0	
Stack Exit	Phosphorus (yellow or white)	Method 29	3	360	0	
Stack Exit	Copper	Method 29	3	360	0	
Stack Exit	Arsenic	Method 29	3	360	0	
Stack Exit	Barium	Method 29	3	360	0	
Stack Exit	Beryllium	Method 29	3	360	0	
Stack Exit	Cadmium	Method 29	3	360	0	
Stack Exit	Antimony	Method 29	3	360	0	
Stack Exit	Chromium	Method 29	3	360	0	
Stack Exit	Cobalt	Method 29	3	360	0	
Stack Exit	Lead	Method 29	3	360	0	
Stack Exit	Magnesium	Method 29	3	360	0	
Stack Exit	Manganese	Method 29	3	360	0	
Stack Exit	Nickel	Method 29	3	360	0	
Stack Exit	Selenium	Method 29	3	360	0	
Stack Exit	Silver	Method 29	3	360	0	
Stack Exit	Thallium	Method 29	3	360	0	
Stack Exit	Zinc	Method 29	3	360	0	
Stack Exit	Mercury	Method 29	3	360	0	
Stack Exit	Co2	Method 3A CO2	12	60	0	
Stack Exit	O2	Method 3A O2	12	60	0	
Stack Exit	Filterable Particulate	Method 5	3	240	0	
Stack Exit	Sulfur Dioxide	Method 6C	12	60	0	
Stack Exit	Nitrogen oxides (NOx)	Method 7E	12	60	0	

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N/A

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## Stack Exit - Method 10

Run Number	1.1	1.2	1.3	
Test Date	12/15/2009	12/15/2009	12/15/2009	
Run Start Time	11:33:00 AM	1:14:00 PM	2:28:00 PM	
Run Finish Time	1:00:00 PM	2:14:00 PM	3:28:00 PM	
Carbon Dioxide, %	6.999	6.234	6.152	6.462
Oxygen, %	11.768	12.622	12.881	12.424
Dry Volumetric Flow Rate, dry scfm	24528	23157	23158	23,614.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.75	2.31	2.31	2.457
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

## Stack Exit - Method 10 3

Run Number	1.4	2.1	2.2	
Test Date	12/15/2009	12/16/2009	12/16/2009	
Run Start Time	3:40:00 PM	10:25:00 AM	11:45:00 AM	
Run Finish Time	4:40:00 PM	11:25:00 AM	12:45:00 PM	
Carbon Dioxide, %	6.71	6.106	5.515	6.110
Oxygen, %	12.16	12.952	13.579	12.897
Dry Volumetric Flow Rate, dry scfm	23135	23810	25104	24,016.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.67	2.33	2.437
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

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## Stack Exit - Method 10 3 6

Run Number	2.3	2.4	3.1	
Test Date	12/16/2009	12/16/2009	12/17/2009	
Run Start Time	1:23:00 PM	2:35:00 PM	10:56:00 AM	
Run Finish Time	2:23:00 PM	3:35:00 PM	11:15:00 AM	
Carbon Dioxide, %	6.198	6.341	5.574	6.038
Oxygen, %	12.744	12.574	13.65	12.989
Dry Volumetric Flow Rate, dry scfm	25072	25065	22424	24,187.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.33	2.33	2.31	2.323
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

## Stack Exit - Method 10 3 6 9

Run Number	3.2	3.3	3.4	
Test Date	12/17/2009	12/17/2009	12/17/2009	
Run Start Time	12:15:00 PM	1:47:00 PM	3:12:00 PM	
Run Finish Time	1:15:00 PM	2:47:00 PM	4:12:00 PM	
Carbon Dioxide, %	5.62	5.477	5.485	5.527
Oxygen, %	13.575	13.749	13.682	13.669
Dry Volumetric Flow Rate, dry scfm	22423	22429	22429	22,427.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	0	5,806.667
Moisture, %	2.31	2.31	2.31	2.310
Fuel Type	Gas - Natural	Gas - Natural		
Fw	10610	10610	0	7,073.333
Fc	1040	1040	0	693.333

# **CCCSD Information Collection Request Source Test for EPA**

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## **Stack Exit - Method 23**

Run Number	1	2	3	
Test Date	12/16/2009	12/17/2009	12/18/2009	
Run Start Time	10:53:00 AM	10:00:00 AM	9:16:00 AM	
Run Finish Time	5:01:00 PM	4:06:00 PM	3:23:00 PM	
Net Run Time, minutes	360	360	360	
Dry Gas Meter Volume Sampled, dscf	215.483	198.402	194.726	202.870
Moisture Content of Stack Gas, %	2.62	1.90	1.98	2.167
Carbon Dioxide, %	6	5.5	5.8	5.767
Oxygen, %	13	13.7	13.4	13.367
Average Stack Gas Temperature, °F	133.90	123.95	121.80	126.550
Dry Volumetric Flow Rate, dry scfm	23,460.1	21,818.2	21,150.5	22,142.933
Actual Wet Volumetric Flue Gas Flow Rate, acfm	26,900.3	24,337.3	23,563.8	24,933.800
Percent Isokinetic of Sampling Rate, %	97.4	96.4	97.6	97.133
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

## **Stack Exit - Method 26A**

Run Number	1	2	3	
Test Date	12/15/2009	12/15/2009	12/16/2009	
Run Start Time	8:14:00 AM	12:50:00 PM	7:57:00 AM	
Run Finish Time	12:17:00 PM	4:52:00 PM	12:06:00 PM	
Net Run Time, minutes	240	240	240	
Dry Gas Meter Volume Sampled, dscf	132.419	126.267	129.468	129.385
Moisture Content of Stack Gas, %	2.73	2.30	2.65	2.560
Carbon Dioxide, %	7	6.3	6.1	6.467
Oxygen, %	11.8	12.6	12.9	12.433
Average Stack Gas Temperature, °F	129.05	129.35	127.50	128.633
Dry Volumetric Flow Rate, dry scfm	24,579.4	23,189.1	23,840.6	23,869.700
Actual Wet Volumetric Flue Gas Flow Rate, acfm	28,031.7	26,351.9	27,050.4	27,144.667
Percent Isokinetic of Sampling Rate, %	99.0	100.1	99.8	99.633
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000



# **CCCSD Information Collection Request Source Test for EPA**

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## **Stack Exit - Method 29**

Run Number	1	2	3	
Test Date	12/16/2009	12/17/2009	12/18/2009	
Run Start Time	10:52:00 AM	9:59:00 AM	9:17:00 AM	
Run Finish Time	5:01:00 PM	4:06:00 PM	3:22:00 PM	
Net Run Time, minutes	360	360	360	
Dry Gas Meter Volume Sampled, dscf	222.233	191.991	191.221	201.815
Moisture Content of Stack Gas, %	2.72	2.30	2.36	2.460
Carbon Dioxide, %	6	5.5	5.8	5.767
Oxygen, %	13	13.7	13.4	13.367
Average Stack Gas Temperature, °F	136.60	127.90	131.85	132.117
Dry Volumetric Flow Rate, dry scfm	24,881.9	24,744.0	22,040.1	23,888.667
Actual Wet Volumetric Flue Gas Flow Rate, acfm	28,689.8	27,910.5	25,076.2	27,225.500
Percent Isokinetic of Sampling Rate, %	99.2	86.2	96.4	93.933
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

## **Stack Exit - Method 3A CO2**

Run Number	1.1	1.2	1.3	
Test Date	12/15/2009	12/15/2009	12/15/2009	
Run Start Time	11:34:00 AM	1:14:00 PM	2:28:00 PM	
Run Finish Time	1:00:00 PM	2:14:00 PM	3:28:00 PM	
Carbon Dioxide, %	6.999	6.234	6.152	6.462
Oxygen, %	11.768	12.622	12.881	12.424
Dry Volumetric Flow Rate, dry scfm	24528	23704	23158	23,796.667
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.75	2.31	2.31	2.457
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

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## Stack Exit - Method 3A CO2 3

Run Number	1.4	2.1	2.2	
Test Date	12/15/2009	12/16/2009	12/16/2009	
Run Start Time	3:40:00 PM	10:25:00 AM	11:45:00 AM	
Run Finish Time	4:40:00 PM	11:25:00 AM	12:45:00 PM	
Carbon Dioxide, %	6.71	6.106	5.515	6.110
Oxygen, %	12.16	12.952	13.579	12.897
Dry Volumetric Flow Rate, dry scfm	23135	238102476 3	25104	793,691,000. 667
F-Factor, dscfm/MMBtu @ %O2	8710	0	8710	5,806.667
Moisture, %	2.31	2.67	2.33	2.437
Fuel Type	Gas - Natural		Gas - Natural	
Fw	10610	0	10610	7,073.333
Fc	1040	0	1040	693.333

## Stack Exit - Method 3A CO2 3 6

Run Number	2.3	2.4	3.1	
Test Date	12/16/2009	12/16/2009	12/17/2009	
Run Start Time	1:23:00 PM	2:35:00 PM	10:56:00 AM	
Run Finish Time	2:23:00 PM	3:35:00 PM	11:56:00 AM	
Carbon Dioxide, %	6.198	6.341	5.574	6.038
Oxygen, %	12.744	12.574	13.65	12.989
Dry Volumetric Flow Rate, dry scfm	25072	25065	22424	24,187.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.33	2.33	2.31	2.323
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

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## Stack Exit - Method 3A CO2 3 6 9

Run Number	3.2	3.3	3.4	
Test Date	12/17/2009	12/17/2009	12/17/2009	
Run Start Time	12:15:00 PM	1:47:00 PM	3:12:00 PM	
Run Finish Time	1:15:00 PM	2:47:00 PM	4:12:00 PM	
Carbon Dioxide, %	5.62	5.477	5.485	5.527
Oxygen, %	13.575	13.749	13.682	13.669
Dry Volumetric Flow Rate, dry scfm	22423	22429	22429	22,427.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.31	2.31	2.310
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

## Stack Exit - Method 3A O2

Run Number	1.1	1.2	1.3	
Test Date	12/15/2009	12/15/2009	12/15/2009	
Run Start Time	11:33:00 AM	1:14:00 PM	2:28:00 PM	
Run Finish Time	1:00:00 PM	2:14:00 PM	3:28:00 PM	
Carbon Dioxide, %	6.999	6.234	6.152	6.462
Oxygen, %	11.768	12.622	12.881	12.424
Dry Volumetric Flow Rate, dry scfm	24528	23157	23158	23,614.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.75	2.31	2.31	2.457
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

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## **Stack Exit - Method 3A O2 3**

Run Number	1.4	2.1	2.2	
Test Date	12/15/2009	12/16/2009	12/16/2009	
Run Start Time	3:40:00 PM	10:25:00 AM	11:45:00 AM	
Run Finish Time	4:40:00 PM	11:25:00 AM	12:45:00 PM	
Carbon Dioxide, %	6.71	6.106	5.515	6.110
Oxygen, %	12.16	12.952	13.579	12.897
Dry Volumetric Flow Rate, dry scfm	23135	23810	25104	24,016.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.67	2.33	2.437
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

## **Stack Exit - Method 3A O2 3 6**

Run Number	2.3	2.4	3.1	
Test Date	12/16/2009	12/16/2009	12/17/2009	
Run Start Time	1:23:00 PM	2:25:00 PM	10:56:00 AM	
Run Finish Time	2:23:00 PM	3:35:00 PM	11:56:00 AM	
Carbon Dioxide, %	6.198	6.341	5.574	6.038
Oxygen, %	12.744	12.574	13.65	12.989
Dry Volumetric Flow Rate, dry scfm	25072	25065	22424	24,187.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.33	2.33	2.31	2.323
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

# **CCCSD Information Collection Request Source Test for EPA**

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## **Stack Exit - Method 3A O2 3 6 9**

Run Number	3.2	3.3	3.4	
Test Date	12/17/2009	12/17/2009	12/17/2009	
Run Start Time	12:15:00 PM	1:47:00 PM	3:12:00 PM	
Run Finish Time	1:15:00 PM	2:47:00 PM	4:12:00 PM	
Carbon Dioxide, %	5.62	5.477	5.485	5.527
Oxygen, %	13.575	13.749	13.682	13.669
Dry Volumetric Flow Rate, dry scfm	22423	22429	22429	22,427.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.31	2.31	2.310
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

## **Stack Exit - Method 5**

Run Number	1	2	3	
Test Date	12/15/2009	12/15/2009	12/16/2009	
Run Start Time	8:14:00 AM	12:50:00 PM	7:57:00 AM	
Run Finish Time	12:17:00 PM	4:52:00 PM	12:06:00 PM	
Net Run Time, minutes	240	240	240	
Dry Gas Meter Volume Sampled, dscf	132.369	126.140	129.371	129.293
Moisture Content of Stack Gas, %	2.73	2.30	2.66	2.563
Carbon Dioxide, %	7	6.3	6.1	6.467
Oxygen, %	11.8	12.6	12.9	12.433
Average Stack Gas Temperature, °F	129.05	129.55	127.50	128.700
Dry Volumetric Flow Rate, dry scfm	24,579.4	23,359.0	23,848.3	23,928.900
Actual Wet Volumetric Flue Gas Flow Rate, acfm	28,031.7	26,554.0	27,061.9	27,215.867
Percent Isokinetic of Sampling Rate, %	99.0	99.2	99.7	99.300
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

# **CCCSD Information Collection Request Source Test for EPA**

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## Stack Exit - Method 6C

Run Number	1.1	1.2	1.3	
Test Date	12/15/2009	12/15/2009	12/15/2009	
Run Start Time	11:33:00 AM	1:14:00 PM	2:28:00 PM	
Run Finish Time	1:00:00 PM	2:14:00 PM	3:28:00 PM	
Carbon Dioxide, %	6.999	6.234	6.152	6.462
Oxygen, %	11.768	12.622	12.881	12.424
Dry Volumetric Flow Rate, dry scfm	24528	23157	23158	23,614.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.75	2.31	2.31	2.457
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

## Stack Exit - Method 6C 3

Run Number	1.4	2.1	2.2	
Test Date	12/15/2009	12/16/2009	12/16/2009	
Run Start Time	3:40:00 PM	10:25:00 AM	11:45:00 AM	
Run Finish Time	4:40:00 PM	11:25:00 AM	12:45:00 PM	
Carbon Dioxide, %	6.71	6.106	5.515	6.110
Oxygen, %	12.16	12.952	13.579	12.897
Dry Volumetric Flow Rate, dry scfm	23135	23810	25104	24,016.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.67	2.33	2.437
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

# **CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

## Stack Exit - Method 6C 3 6

Run Number	2.3	2.4	3.1	
Test Date	12/16/2009	12/16/2009	12/17/2009	
Run Start Time	1:23:00 PM	2:35:00 PM	10:56:00 AM	
Run Finish Time	2:23:00 PM	3:35:00 PM	11:56:00 AM	
Carbon Dioxide, %	6.198	6.341	5.574	6.038
Oxygen, %	12.744	12.574	13.65	12.989
Dry Volumetric Flow Rate, dry scfm	25072	25065	22424	24,187.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.33	2.33	2.31	2.323
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

## Stack Exit - Method 6C 3 6 9

Run Number	3.2	3.3	3.4	
Test Date	12/17/2009	12/17/2009	12/17/2009	
Run Start Time	12:15:00 PM	1:47:00 PM	10:56:00 AM	
Run Finish Time	1:15:00 PM	2:47:00 PM	11:56:00 AM	
Carbon Dioxide, %	5.62	5.447	5.485	5.517
Oxygen, %	13.575	13.749	13.682	13.669
Dry Volumetric Flow Rate, dry scfm	22423	22429	22429	22,427.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.31	2.31	2.310
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

# **CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

## Stack Exit - Method 7E

Run Number	1.1	1.2	1.3	
Test Date	12/15/2009	12/15/2009	12/15/2009	
Run Start Time	11:34:00 AM	1:14:00 PM	2:28:00 PM	
Run Finish Time	1:00:00 PM	2:14:00 PM	3:28:00 PM	
Carbon Dioxide, %	6.999	6.234	6.152	6.462
Oxygen, %	11.768	12.622	12.881	12.424
Dry Volumetric Flow Rate, dry scfm	24528	23157	23158	23,614.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.75	2.31	2.31	2.457
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

## Stack Exit - Method 7E 3

Run Number	1.4	2.1	2.2	
Test Date	12/15/2009	12/16/2009	12/16/2009	
Run Start Time	3:40:00 PM	10:25:00 AM	11:45:00 AM	
Run Finish Time	4:40:00 PM	11:25:00 AM	12:45:00 PM	
Carbon Dioxide, %	6.71	6.106	5.515	6.110
Oxygen, %	12.16	12.952	13.579	12.897
Dry Volumetric Flow Rate, dry scfm	23135	23810	25104	24,016.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.67	2.33	2.437
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000



# **CCCSD Information Collection Request Source Test for EPA**

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## Stack Exit - Method 7E 3 6

Run Number	2.3	2.4	3.1	
Test Date	12/16/2009	12/16/2009	12/17/2009	
Run Start Time	1:23:00 PM	2:35:00 PM	10:56:00 AM	
Run Finish Time	2:23:00 PM	3:35:00 PM	11:56:00 AM	
Carbon Dioxide, %	6.198	6.341	5.574	6.038
Oxygen, %	12.744	12.574	13.65	12.989
Dry Volumetric Flow Rate, dry scfm	25072	25065	22424	24,187.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.33	2.33	2.31	2.323
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

## Stack Exit - Method 7E 3 6 9

Run Number	3.2	3.3	3.4	
Test Date	12/17/2009	12/17/2009	12/17/2009	
Run Start Time	12:15:00 PM	1:47:00 PM	3:12:00 PM	
Run Finish Time	1:15:00 PM	2:47:00 PM	4:12:00 PM	
Carbon Dioxide, %	5.62	5.472	5.485	5.526
Oxygen, %	13.575	13.749	13.682	13.669
Dry Volumetric Flow Rate, dry scfm	22423	22429	22429	22,427.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.31	2.31	2.310
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

# **CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

Stack Exit - OTM - 27/28

Run Number	1	2	3	
Test Date	12/15/2009	12/15/2009	12/16/2009	
Run Start Time	8:36:00 AM	1:18:00 PM	8:14:00 AM	
Run Finish Time	12:06:00 PM	5:16:00 PM	12:01:30 PM	
Net Run Time, minutes	208	234	217	
Dry Gas Meter Volume Sampled, dscf	82.048	93.076	90.265	88.463
Moisture Content of Stack Gas, %	2.70	2.30	2.02	2.340
Carbon Dioxide, %	6.9	6.3	6.1	6.433
Oxygen, %	11.8	12.6	12.9	12.433
Average Stack Gas Temperature, °F	132.70	129.40	129.10	130.400
Dry Volumetric Flow Rate, dry scfm	26,181.7	26,025.0	24,614.0	25,606.900
Actual Wet Volumetric Flue Gas Flow Rate, acfm	30,034.8	29,567.3	27,823.9	29,142.000
Percent Isokinetic of Sampling Rate, %	94.2	95.5	105.6	98.433
F-Factor, dscfm/MMBtu @ %O <sub>2</sub>	8710	8710	8710	8,710.000
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

# CCCSD Information Collection Request Source Test for EPA

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## Stack Exit - Method 10

### Carbon Monoxide

Run	1.1	1.2	1.3	
Elb/hr	5.87E+01	5.59E+01	5.16E+01	55.400
mg/dscm	6.39E+02	6.45E+02	5.95E+02	626.333
mg/dscm@7%O2	9.73E+02	1.08E+03	1.03E+03	1,027.667
ppm	5.48E+02	5.54E+02	5.11E+02	537.667
ppm@7%O2	8.34E+02	9.30E+02	8.86E+02	883.333

## Stack Exit - Method 10 3

### Carbon Monoxide

Run	1.4	2.1	2.2	
Elb/hr	6.04E+01	3.95E+01	6.48E+01	54.900
mg/dscm	6.97E+02	4.43E+02	6.89E+02	609.667
mg/dscm@7%O2	1.11E+03	7.75E+02	1.31E+03	1,065.000
ppm	5.98E+02	3.80E+02	5.92E+02	523.333
ppm@7%O2	9.51E+02	6.65E+02	1.12E+03	912.000

## Stack Exit - Method 10 3 6

### Carbon Monoxide

Run	2.3	2.4	3.1	
Elb/hr	6.32E+01	6.75E+01	6.89E+01	66.533
mg/dscm	6.73E+02	7.19E+02	8.20E+02	737.333
mg/dscm@7%O2	1.15E+03	1.20E+03	1.57E+03	1,306.667
ppm	5.78E+02	6.17E+02	7.04E+02	633.000
ppm@7%O2	9.85E+02	1.03E+03	1.35E+03	1,121.667

## Stack Exit - Method 10 3 6 9

### Carbon Monoxide

Run	3.2	3.3	3.4	
Elb/hr	6.25E+01	6.42E+01	6.39E+01	63.533
mg/dscm	7.44E+02	7.65E+02	7.60E+02	756.333
mg/dscm@7%O2	1.41E+03	1.49E+03	1.46E+03	1,453.333
ppm	6.39E+02	6.56E+02	6.53E+02	649.333
ppm@7%O2	1.21E+03	1.28E+03	1.26E+03	1,250.000

## Stack Exit - Method 23

### 1,2,3,4,6,7,8-HpCDD

RunNumber	1	2	3	
Mass_mg	0.000000000763	0.000000000306	0.000000000928	0.000
Elb/hr	1.10E-11	4.45E-11	1.33E-11	0.000
mg/dscm	1.25E-10	5.45E-10	1.68E-10	0.000
mg/dscm@7%O2	2.20E-10	1.05E-09	3.11E-10	0.000

# CCCSD Information Collection Request Source Test for EPA

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## 1,2,3,4,6,7,8-HpCDF

RunNumber	1	2	3	
Mass_mg	0.00000000954	0.000000001	0.00000000929	0.000
Elb/hr	1.37E-11	1.45E-11	1.33E-11	0.000
mg/dscm	1.56E-10	1.78E-10	1.69E-10	0.000
mg/dscm@7%O2	2.74E-10	3.44E-10	3.13E-10	0.000

## 1,2,3,4,7,8,9-HpCDF

RunNumber	1	2	3	
Mass_mg	0.0000000113	0.0000000118	0.000000011	0.000
Elb/hr	1.63E-11	1.72E-11	1.58E-11	0.000
mg/dscm	1.85E-10	2.10E-10	2.00E-10	0.000
mg/dscm@7%O2	3.26E-10	4.05E-10	3.71E-10	0.000

## 1,2,3,4,7,8-HxCDD

RunNumber	1	2	3	
Mass_mg	0.00000000815	0.0000000011	0.00000000838	0.000
Elb/hr	1.17E-11	1.60E-11	1.20E-11	0.000
mg/dscm	1.34E-10	1.96E-10	1.52E-10	0.000
mg/dscm@7%O2	2.36E-10	3.78E-10	2.82E-10	0.000

## 1,2,3,4,7,8-HxCDF

RunNumber	1	2	3	
Mass_mg	0.00000000598	0.00000000586	0.00000000595	0.000
Elb/hr	8.61E-12	8.52E-12	8.55E-12	0.000
mg/dscm	9.80E-11	1.04E-10	1.08E-10	0.000
mg/dscm@7%O2	1.72E-10	2.01E-10	2.00E-10	0.000

## 1,2,3,6,7,8-HxCDD

RunNumber	1	2	3	
Mass_mg	0.00000000857	0.0000000116	0.00000000881	0.000
Elb/hr	1.23E-11	1.69E-11	1.27E-11	0.000
mg/dscm	1.40E-10	2.07E-10	1.60E-10	0.000
mg/dscm@7%O2	2.46E-10	4.00E-10	2.97E-10	0.000

## 1,2,3,6,7,8-HxCDF

RunNumber	1	2	3	
Mass_mg	0.0000000061	0.00000000598	0.00000000608	0.000
Elb/hr	8.78E-12	8.70E-12	8.74E-12	0.000
mg/dscm	1.00E-10	1.06E-10	1.10E-10	0.000
mg/dscm@7%O2	1.76E-10	2.05E-10	2.04E-10	0.000

## 1,2,3,7,8,9-HxCDD

RunNumber	1	2	3	
Mass_mg	0.00000000766	0.0000000104	0.00000000788	0.000
Elb/hr	1.10E-11	1.51E-11	1.13E-11	0.000

# CCCSO Information Collection Request Source Test for EPA

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mg/dscm	1.26E-10	1.85E-10	1.43E-10	0.000
mg/dscm@7%O2	2.22E-10	3.57E-10	2.65E-10	0.000

1,2,3,7,8,9-HxCDF

RunNumber	1	2	3	
Mass_mg	0.000000000719	0.000000000705	0.000000000716	0.000
Elb/hr	1.04E-11	1.03E-11	1.03E-11	0.000
mg/dscm	1.18E-10	1.26E-10	1.30E-10	0.000
mg/dscm@7%O2	2.08E-10	2.43E-10	2.41E-10	0.000

1,2,3,7,8-PeCDD

RunNumber	1	2	3	
Mass_mg	0.000000000761	0.00000000093	0.000000000875	0.000
Elb/hr	1.10E-11	1.35E-11	1.26E-11	0.000
mg/dscm	1.25E-10	1.66E-10	1.59E-10	0.000
mg/dscm@7%O2	2.20E-10	3.20E-10	2.95E-10	0.000

1,2,3,7,8-PeCDF

RunNumber	1	2	3	
Mass_mg	0.000000000812	0.000000000662	0.000000000621	0.000
Elb/hr	1.17E-11	9.63E-12	8.92E-12	0.000
mg/dscm	1.33E-10	1.18E-10	1.13E-10	0.000
mg/dscm@7%O2	2.34E-10	2.28E-10	2.09E-10	0.000

2,3,4,6,7,8-HxCDF

RunNumber	1	2	3	
Mass_mg	0.000000000678	0.000000000665	0.000000000676	0.000
Elb/hr	9.76E-12	9.67E-12	9.71E-12	0.000
mg/dscm	1.11E-10	1.18E-10	1.23E-10	0.000
mg/dscm@7%O2	1.95E-10	2.28E-10	2.28E-10	0.000

2,3,4,7,8-PeCDF

RunNumber	1	2	3	
Mass_mg	0.000000000867	0.00000000176	0.000000000663	0.000
Elb/hr	1.25E-11	2.56E-11	9.53E-12	0.000
mg/dscm	1.42E-10	3.13E-10	1.20E-10	0.000
mg/dscm@7%O2	2.50E-10	6.04E-10	2.22E-10	0.000

2,3,7,8-TCDD

RunNumber	1	2	3	
Mass_mg	0.000000000587	0.000000000548	0.000000000531	0.000
Elb/hr	8.45E-12	7.97E-12	7.63E-12	0.000
mg/dscm	9.62E-11	9.76E-11	9.63E-11	0.000
mg/dscm@7%O2	1.69E-10	1.88E-10	1.78E-10	0.000

2,3,7,8-TCDF

RunNumber	1	2	3	
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# CCCSD Information Collection Request Source Test for EPA

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Mass_mg	0.0000000106	0.00000000492	0.00000000257	0.000
Elb/hr	1.53E-10	7.16E-11	3.69E-11	0.000
mg/dscm	1.74E-09	8.76E-10	4.66E-10	0.000
mg/dscm@7%O2	3.06E-09	1.69E-09	8.64E-10	0.000

## 2-Methylnaphthalene

RunNumber	1	2	3	
Mass_mg	0.00018	0.000141	0.000126	0.000
Elb/hr	2.59E-06	2.05E-06	1.81E-06	0.000
mg/dscm	2.95E-05	2.51E-05	2.29E-05	0.000
mg/dscm@7%O2	5.19E-05	4.85E-05	4.24E-05	0.000

## Acenaphthene\*\*

RunNumber	1	2	3	
Mass_mg	0.0000936	0.0000674	0.000126	0.000
Elb/hr	1.35E-06	9.80E-07	1.81E-06	0.000
mg/dscm	1.53E-05	1.20E-05	2.29E-05	0.000
mg/dscm@7%O2	2.69E-05	2.32E-05	4.24E-05	0.000

## Acenaphthylene\*\*

RunNumber	1	2	3	
Mass_mg	0.0000249	0.00002	0.0000258	0.000
Elb/hr	3.59E-07	2.91E-07	3.71E-07	0.000
mg/dscm	4.08E-06	3.56E-06	4.68E-06	0.000
mg/dscm@7%O2	7.18E-06	6.87E-06	8.67E-06	0.000

## Anthracene\*\*

RunNumber	1	2	3	
Mass_mg	0.00002	0.00002	0.00002	0.000
Elb/hr	2.88E-07	2.91E-07	2.87E-07	0.000
mg/dscm	3.28E-06	3.56E-06	3.63E-06	0.000
mg/dscm@7%O2	5.77E-06	6.87E-06	6.73E-06	0.000

## Benzo(a)Anthracene\*

RunNumber	1	2	3	
Mass_mg	0.00002	0.00002	0.00002	0.000
Elb/hr	2.88E-07	2.91E-07	2.87E-07	0.000
mg/dscm	3.28E-06	3.56E-06	3.63E-06	0.000
mg/dscm@7%O2	5.77E-06	6.87E-06	6.73E-06	0.000

## Benzo(a)Pyrene\*

RunNumber	1	2	3	
Mass_mg	0.00002	0.00002	0.00002	0.000
Elb/hr	2.88E-07	2.91E-07	2.87E-07	0.000
mg/dscm	3.28E-06	3.56E-06	3.63E-06	0.000
mg/dscm@7%O2	5.77E-06	6.87E-06	6.73E-06	0.000

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**Benzo(b)Fluoranthene\***

RunNumber	1	2	3	
Mass_mg	0.00002	0.00002	0.00002	0.000
Elb/hr	2.88E-07	2.91E-07	2.87E-07	0.000
mg/dscm	3.28E-06	3.56E-06	3.63E-06	0.000
mg/dscm@ 7%O2	5.77E-06	6.87E-06	6.73E-06	0.000

**Benzo(e)Pyrene**

RunNumber	1	2	3	
Mass_mg	0.00002	0.00002	0.00002	0.000
Elb/hr	2.88E-07	2.91E-07	2.87E-07	0.000
mg/dscm	3.28E-06	3.56E-06	3.63E-06	0.000
mg/dscm@ 7%O2	5.77E-06	6.87E-06	6.73E-06	0.000

**Benzo(ghi)Perylene\*\***

RunNumber	1	2	3	
Mass_mg	0.00002	0.00002	0.00002	0.000
Elb/hr	2.88E-07	2.91E-07	2.87E-07	0.000
mg/dscm	3.28E-06	3.56E-06	3.63E-06	0.000
mg/dscm@ 7%O2	5.77E-06	6.87E-06	6.73E-06	0.000

**Benzo(k)Fluoranthene\***

RunNumber	1	2	3	
Mass_mg	0.00002	0.00002	0.00002	0.000
Elb/hr	2.88E-07	2.91E-07	2.87E-07	0.000
mg/dscm	3.28E-06	3.56E-06	3.63E-06	0.000
mg/dscm@ 7%O2	5.77E-06	6.87E-06	6.73E-06	0.000

**Chrysene\***

RunNumber	1	2	3	
Mass_mg	0.00002	0.00002	0.00002	0.000
Elb/hr	2.88E-07	2.91E-07	2.87E-07	0.000
mg/dscm	3.28E-06	3.56E-06	3.63E-06	0.000
mg/dscm@ 7%O2	5.77E-06	6.87E-06	6.73E-06	0.000

**DeCB**

RunNumber	1	2	3	
Mass_mg	0.0000001	0.0000001	0.0000001	0.000
Elb/hr	1.44E-09	1.45E-09	1.44E-09	0.000
mg/dscm	1.64E-08	1.78E-08	1.81E-08	0.000
mg/dscm@ 7%O2	2.89E-08	3.44E-08	3.35E-08	0.000

**Dibenzo(a,h)Anthracene\***

RunNumber	1	2	3	
Mass_mg	0.00002	0.00002	0.00002	0.000
Elb/hr	2.88E-07	2.91E-07	2.87E-07	0.000

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mg/dscm	3.28E-06	3.56E-06	3.63E-06	0.000
mg/dscm@7%O2	5.77E-06	6.87E-06	6.73E-06	0.000

## Fluoranthene\*\*

RunNumber	1	2	3	
Mass_mg	0.00009	0.0000474	0.000035	0.000
Elb/hr	1.30E-06	6.90E-07	5.03E-07	0.000
mg/dscm	1.48E-05	8.44E-06	6.35E-06	0.000
mg/dscm@7%O2	2.60E-05	1.63E-05	1.18E-05	0.000

## Fluorene\*\*

RunNumber	1	2	3	
Mass_mg	0.0000647	0.0000472	0.0000619	0.000
Elb/hr	9.32E-07	6.87E-07	8.89E-07	0.000
mg/dscm	1.06E-05	8.40E-06	1.12E-05	0.000
mg/dscm@7%O2	1.87E-05	1.62E-05	2.08E-05	0.000

## Indeno(1,2,3-cd)Pyrene\*

RunNumber	1	2	3	
Mass_mg	0.00002	0.00002	0.00002	0.000
Elb/hr	2.88E-07	2.91E-07	2.87E-07	0.000
mg/dscm	3.28E-06	3.56E-06	3.63E-06	0.000
mg/dscm@7%O2	5.77E-06	6.87E-06	6.73E-06	0.000

## Naphthalene\*\*

RunNumber	1	2	3	
Mass_mg	0.00504	0.0026	0.00128	0.003
Elb/hr	7.26E-05	3.78E-05	1.84E-05	0.000
mg/dscm	8.26E-04	4.63E-04	2.32E-04	0.001
mg/dscm@7%O2	1.45E-03	8.94E-04	4.30E-04	0.001

## OCDD

RunNumber	1	2	3	
Mass_mg	0.00000000903	0.0000000131	0.0000000058	0.000
Elb/hr	1.30E-10	1.91E-10	8.33E-11	0.000
mg/dscm	1.48E-09	2.33E-09	1.05E-09	0.000
mg/dscm@7%O2	2.60E-09	4.50E-09	1.95E-09	0.000

## OCDF

RunNumber	1	2	3	
Mass_mg	0.00000000357	0.00000000122	0.00000000118	0.000
Elb/hr	5.14E-11	1.77E-11	1.70E-11	0.000
mg/dscm	5.85E-10	2.17E-10	2.14E-10	0.000
mg/dscm@7%O2	1.03E-09	4.19E-10	3.97E-10	0.000

## Other Di-CBs

RunNumber	1	2	3
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Mass_mg	0.00000517	0.00000428	0.00000291	0.000
Elb/hr	7.45E-08	6.23E-08	4.18E-08	0.000
mg/dscm	8.47E-07	7.62E-07	5.28E-07	0.000
mg/dscm@7%O2	1.49E-06	1.47E-06	9.79E-07	0.000

## Other Hepta-CBs

RunNumber	1	2	3	
Mass_mg	0.00000013	0.000000328	0.0000001	0.000
Elb/hr	1.87E-09	4.77E-09	1.44E-09	0.000
mg/dscm	2.13E-08	5.84E-08	1.81E-08	0.000
mg/dscm@7%O2	3.75E-08	1.13E-07	3.35E-08	0.000

## Other Hexa-CBs

RunNumber	1	2	3	
Mass_mg	0.00000158	0.00000125	0.000000497	0.000
Elb/hr	2.28E-08	1.82E-08	7.14E-09	0.000
mg/dscm	2.59E-07	2.23E-07	9.01E-08	0.000
mg/dscm@7%O2	4.56E-07	4.31E-07	1.67E-07	0.000

## Other HpCDD

RunNumber	1	2	3	
Mass_mg	0.000000000763	0.00000000333	0.000000000928	0.000
Elb/hr	1.10E-11	4.84E-11	1.33E-11	0.000
mg/dscm	1.25E-10	5.93E-10	1.68E-10	0.000
mg/dscm@7%O2	2.20E-10	1.14E-09	3.11E-10	0.000

## Other HpCDF

RunNumber	1	2	3	
Mass_mg	0.00000000104	0.00000000109	0.00000000101	0.000
Elb/hr	1.50E-11	1.59E-11	1.45E-11	0.000
mg/dscm	1.70E-10	1.94E-10	1.83E-10	0.000
mg/dscm@7%O2	2.99E-10	3.75E-10	3.39E-10	0.000

## Other HxCDD

RunNumber	1	2	3	
Mass_mg	0.000000000813	0.0000000011	0.000000000836	0.000
Elb/hr	1.17E-11	1.60E-11	1.20E-11	0.000
mg/dscm	1.33E-10	1.96E-10	1.52E-10	0.000
mg/dscm@7%O2	2.34E-10	3.78E-10	2.82E-10	0.000

## Other HxCDF

RunNumber	1	2	3	
Mass_mg	0.000000000651	0.000000000638	0.000000000649	0.000
Elb/hr	9.38E-12	9.28E-12	9.32E-12	0.000
mg/dscm	1.07E-10	1.14E-10	1.18E-10	0.000
mg/dscm@7%O2	1.88E-10	2.20E-10	2.19E-10	0.000

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## Other Mono-CBs

RunNumber	1	2	3	
Mass_mg	0.00000417	0.0000021	0.000000641	0.000
Elb/hr	6.01E-08	3.05E-08	9.21E-09	0.000
mg/dscm	6.84E-07	3.74E-07	1.16E-07	0.000
mg/dscm@7%O2	1.20E-06	7.22E-07	2.15E-07	0.000

## Other Nona-CBs

RunNumber	1	2	3	
Mass_mg	0.0000001	0.0000001	0.0000001	0.000
Elb/hr	1.44E-09	1.45E-09	1.44E-09	0.000
mg/dscm	1.64E-08	1.78E-08	1.81E-08	0.000
mg/dscm@7%O2	2.89E-08	3.44E-08	3.35E-08	0.000

## Other Octa-CBs

RunNumber	1	2	3	
Mass_mg	0.0000001	0.0000001	0.0000001	0.000
Elb/hr	1.44E-09	1.45E-09	1.44E-09	0.000
mg/dscm	1.64E-08	1.78E-08	1.81E-08	0.000
mg/dscm@7%O2	2.89E-08	3.44E-08	3.35E-08	0.000

## Other PeCDD

RunNumber	1	2	3	
Mass_mg	0.000000000761	0.00000000093	0.000000000875	0.000
Elb/hr	1.10E-11	1.35E-11	1.26E-11	0.000
mg/dscm	1.25E-10	1.66E-10	1.59E-10	0.000
mg/dscm@7%O2	2.20E-10	3.20E-10	2.95E-10	0.000

## Other PeCDF

RunNumber	1	2	3	
Mass_mg	0.0000000214	0.0000000177	0.00000000642	0.000
Elb/hr	3.08E-10	2.57E-10	9.22E-12	0.000
mg/dscm	3.51E-09	3.15E-09	1.16E-10	0.000
mg/dscm@7%O2	6.18E-09	6.08E-09	2.15E-10	0.000

## Other Penta-CBs

RunNumber	1	2	3	
Mass_mg	0.00000448	0.00000271	0.00000163	0.000
Elb/hr	6.45E-08	3.94E-08	2.34E-08	0.000
mg/dscm	7.34E-07	4.82E-07	2.96E-07	0.000
mg/dscm@7%O2	1.29E-06	9.31E-07	5.49E-07	0.000

## Other TCDD

RunNumber	1	2	3	
Mass_mg	0.000000000587	0.000000000608	0.000000000531	0.000
Elb/hr	8.45E-12	8.84E-11	7.63E-12	0.000

# **CCCSO Information Collection Request Source Test for EPA**

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mg/dscm	9.62E-11	1.08E-09	9.63E-11	0.000
mg/dscm@7%O2	1.69E-10	2.09E-09	1.78E-10	0.000

## **Other TCDF**

RunNumber	1	2	3	
Mass_mg	0.000000188	0.0000000569	0.0000000101	0.000
Elb/hr	2.71E-09	8.28E-10	1.45E-10	0.000
mg/dscm	3.08E-08	1.01E-08	1.83E-09	0.000
mg/dscm@7%O2	5.42E-08	1.95E-08	3.39E-09	0.000

## **Other Tetra-CBs**

RunNumber	1	2	3	
Mass_mg	0.00000514	0.00000334	0.00000155	0.000
Elb/hr	7.40E-08	4.86E-08	2.23E-08	0.000
mg/dscm	8.43E-07	5.95E-07	2.81E-07	0.000
mg/dscm@7%O2	1.48E-06	1.15E-06	5.21E-07	0.000

## **Other Tri-CBs**

RunNumber	1	2	3	
Mass_mg	0.00000576	0.0000051	0.00000322	0.000
Elb/hr	8.30E-08	7.42E-08	4.63E-08	0.000
mg/dscm	9.44E-07	9.08E-07	5.84E-07	0.000
mg/dscm@7%O2	1.66E-06	1.75E-06	1.08E-06	0.000

## **Perylene**

RunNumber	1	2	3	
Mass_mg	0.00002	0.00002	0.00002	0.000
Elb/hr	2.88E-07	2.91E-07	2.87E-07	0.000
mg/dscm	3.28E-06	3.56E-06	3.63E-06	0.000
mg/dscm@7%O2	5.77E-06	6.87E-06	6.73E-06	0.000

## **Phenanthrene\*\***

RunNumber	1	2	3	
Mass_mg	0.000395	0.000241	0.000183	0.000
Elb/hr	5.69E-06	3.51E-06	2.63E-06	0.000
mg/dscm	6.47E-05	4.29E-05	3.32E-05	0.000
mg/dscm@7%O2	1.14E-04	8.28E-05	6.15E-05	0.000

## **Pyrene\*\***

RunNumber	1	2	3	
Mass_mg	0.0000424	0.00002	0.0000245	0.000
Elb/hr	6.11E-07	2.91E-07	3.52E-07	0.000
mg/dscm	6.95E-06	3.56E-06	4.44E-06	0.000
mg/dscm@7%O2	1.22E-05	6.87E-06	8.23E-06	0.000

## **Total PCBs**

RunNumber	1	2	3
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# **CCCSD Information Collection Request Source Test for EPA**

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Mass_mg	0.0000264	0.0000191	0.0000104	0.000
Elb/hr	3.80E-07	2.78E-07	1.49E-07	0.000
mg/dscm	4.33E-06	3.40E-06	1.89E-06	0.000
mg/dscm@7%O2	7.62E-06	6.56E-06	3.50E-06	0.000

## **Stack Exit - Method 26A**

### Hydrogen Chloride

RunNumber	1	2	3	
Mass_mg	2.618	2.754	2.61	2.661
Elb/hr	6.43E-02	6.69E-02	6.36E-02	0.065
gr/dscf	3.05E-04	3.37E-04	3.11E-04	0.000
lb/mmBtuO2	8.72E-04	1.05E-03	1.01E-03	0.001
mg/dscm	6.98E-01	7.70E-01	7.12E-01	0.727
mg/dscm@7%O2	1.07E+00	1.29E+00	1.24E+00	1.200
ppm	4.61E-01	5.08E-01	4.70E-01	0.480
ppm@7%O2	7.04E-01	8.51E-01	8.17E-01	0.791

### Hydrogen Fluoride

RunNumber	1	2	3	
Mass_mg	0.77	0.765	0.815	0.783
Elb/hr	1.89E-02	1.86E-02	1.99E-02	0.019
gr/dscf	8.97E-05	9.35E-05	9.71E-05	0.000
lb/mmBtuO2	2.56E-04	2.93E-04	3.16E-04	0.000
mg/dscm	2.05E-01	2.14E-01	2.22E-01	0.214
mg/dscm@7%O2	3.13E-01	3.58E-01	3.86E-01	0.352
ppm	2.47E-01	2.57E-01	2.67E-01	0.257
ppm@7%O2	3.77E-01	4.30E-01	4.64E-01	0.424

## **Stack Exit - Method 29**

### Antimony

RunNumber	1	2	3	
Mass_mg	0.0096	0.0085	0.0077	0.009
Elb/hr	1.42E-04	1.45E-04	1.17E-04	0.000
mg/dscm	1.53E-03	1.56E-03	1.42E-03	0.002
mg/dscm@7%O2	2.69E-03	3.01E-03	2.63E-03	0.003

### Arsenic

RunNumber	1	2	3	
Mass_mg	0.0284	0.0235	0.0248	0.026
Elb/hr	4.21E-04	4.01E-04	3.78E-04	0.000
mg/dscm	4.51E-03	4.32E-03	4.58E-03	0.004
mg/dscm@7%O2	7.94E-03	8.34E-03	8.49E-03	0.008

### Barium

RunNumber	1	2	3	
Mass_mg	0.0035	0.0039	0.0042	0.004
Elb/hr	5.18E-05	6.65E-05	6.40E-05	0.000
mg/dscm	5.56E-04	7.17E-04	7.76E-04	0.001

# **CCCSD Information Collection Request Source Test for EPA**

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mg/dscm@7%O2	9.78E-04	1.38E-03	1.44E-03	0.001
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## **Beryllium**

RunNumber	1	2	3	
Mass_mg	0.00036	0.00036	0.00036	0.000
Elb/hr	5.33E-06	6.14E-06	5.49E-06	0.000
mg/dscm	5.72E-05	6.62E-05	6.65E-05	0.000
mg/dscm@7%O2	1.01E-04	1.28E-04	1.23E-04	0.000

## **Cadmium**

RunNumber	1	2	3	
Mass_mg	0.0362	0.0349	0.0378	0.036
Elb/hr	5.36E-04	5.95E-04	5.76E-04	0.001
mg/dscm	5.75E-03	6.42E-03	6.98E-03	0.006
mg/dscm@7%O2	1.01E-02	1.24E-02	1.29E-02	0.012

## **Chromium**

RunNumber	1	2	3	
Mass_mg	0.0113	0.0147	0.0113	0.012
Elb/hr	1.67E-04	2.51E-04	1.72E-04	0.000
mg/dscm	1.80E-03	2.70E-03	2.09E-03	0.002
mg/dscm@7%O2	3.17E-03	5.21E-03	3.87E-03	0.004

## **Cobalt**

RunNumber	1	2	3	
Mass_mg	0.00036	0.0005	0.0014	0.001
Elb/hr	5.33E-06	8.52E-06	2.13E-05	0.000
mg/dscm	5.72E-05	9.20E-05	2.59E-04	0.000
mg/dscm@7%O2	1.01E-04	1.78E-04	4.80E-04	0.000

## **Copper**

RunNumber	1	2	3	
Mass_mg	0.275	0.246	0.273	0.265
Elb/hr	4.07E-03	4.19E-03	4.16E-03	0.004
mg/dscm	4.37E-02	4.53E-02	5.04E-02	0.046
mg/dscm@7%O2	7.69E-02	8.75E-02	9.34E-02	0.086

## **Lead**

RunNumber	1	2	3	
Mass_mg	0.105	0.0886	0.161	0.118
Elb/hr	1.56E-03	1.51E-03	2.45E-03	0.002
mg/dscm	1.67E-02	1.63E-02	2.97E-02	0.021
mg/dscm@7%O2	2.94E-02	3.15E-02	5.50E-02	0.039

## **Magnesium**

RunNumber	1	2	3	
Mass_mg	0.0581	0.062	0.175	0.098

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Elb/hr	8.60E-04	1.06E-03	2.67E-03	0.002
mg/dscm	9.23E-03	1.14E-02	3.23E-02	0.018
mg/dscm@7%O2	1.62E-02	2.20E-02	5.99E-02	0.033

## Manganese

RunNumber	1	2	3	
Mass_mg	0.0272	0.0214	0.0192	0.023
Elb/hr	4.03E-04	3.65E-04	2.93E-04	0.000
mg/dscm	4.32E-03	3.94E-03	3.55E-03	0.004
mg/dscm@7%O2	7.60E-03	7.61E-03	6.58E-03	0.007

## Mercury

RunNumber	1	2	3	
Mass_mg	0.19361	0.15688	0.14631	0.166
Elb/hr	2.87E-03	2.67E-03	2.23E-03	0.003
mg/dscm	3.08E-02	2.89E-02	2.70E-02	0.029
mg/dscm@7%O2	5.42E-02	5.58E-02	5.00E-02	0.053

## Nickel

RunNumber	1	2	3	
Mass_mg	0.0033	0.0032	0.0056	0.004
Elb/hr	4.89E-05	5.46E-05	8.54E-05	0.000
mg/dscm	5.24E-04	5.89E-04	1.03E-03	0.001
mg/dscm@7%O2	9.22E-04	1.14E-03	1.91E-03	0.001

## Phosphorus (yellow or white)

RunNumber	1	2	3	
Mass_mg	1.56	1.36	1.72	1.547
Elb/hr	2.31E-02	2.32E-02	2.62E-02	0.024
mg/dscm	2.48E-01	2.50E-01	3.18E-01	0.272
mg/dscm@7%O2	4.36E-01	4.83E-01	5.89E-01	0.503

## Selenium

RunNumber	1	2	3	
Mass_mg	0.0934	0.0982	0.0938	0.095
Elb/hr	1.38E-03	1.67E-03	1.43E-03	0.001
mg/dscm	1.48E-02	1.81E-02	1.73E-02	0.017
mg/dscm@7%O2	2.60E-02	3.49E-02	3.21E-02	0.031

## Silver

RunNumber	1	2	3	
Mass_mg	0.0025	0.0022	0.0031	0.003
Elb/hr	3.70E-05	3.75E-05	4.73E-05	0.000
mg/dscm	3.97E-04	4.05E-04	5.73E-04	0.000
mg/dscm@7%O2	6.99E-04	7.82E-04	1.06E-03	0.001

## Thallium

# **CCCSD Information Collection Request Source Test for EPA**

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RunNumber	1	2	3	
Mass_mg	0.00083	0.00079	0.0011	0.001
Elb/hr	1.23E-05	1.35E-05	1.68E-05	0.000
mg/dscm	1.32E-04	1.45E-04	2.03E-04	0.000
mg/dscm@7%O2	2.32E-04	2.80E-04	3.76E-04	0.000

## **Zinc**

RunNumber	1	2	3	
Mass_mg	2.35	2.07	4.23	2.883
Elb/hr	3.48E-02	3.53E-02	6.45E-02	0.045
mg/dscm	3.73E-01	3.81E-01	7.81E-01	0.512
mg/dscm@7%O2	6.56E-01	7.36E-01	1.45E+00	0.947

## **Stack Exit - Method 5**

### **Filterable Particulate**

RunNumber	1	2	3	
Mass_mg	46.84	43.84	44.89	45.190
Elb/hr	1.15E+00	1.07E+00	1.09E+00	1.103
mg/dscm	1.25E+01	1.23E+01	1.23E+01	12.367
mg/dscm@7%O2	1.91E+01	2.06E+01	2.14E+01	20.367

## **Stack Exit - Method 6C**

### **Sulfur Dioxide**

Run	1.1	1.2	1.3	
Elb/hr	4.09E-01	3.48E-01	3.51E-01	0.369
mg/dscm	4.45E+00	4.02E+00	4.05E+00	4.173
mg/dscm@7%O2	6.77E+00	6.75E+00	7.02E+00	6.847
ppm	1.67E+00	1.51E+00	1.52E+00	1.567
ppm@7%O2	2.54E+00	2.54E+00	2.63E+00	2.570

## **Stack Exit - Method 6C 3**

### **Sulfur Dioxide**

Run	1.4	2.1	2.2	
Elb/hr	4.80E-01	3.82E-01	4.94E-01	0.452
mg/dscm	5.54E+00	4.28E+00	5.25E+00	5.023
mg/dscm@7%O2	8.81E+00	7.49E+00	9.97E+00	8.757
ppm	2.08E+00	1.61E+00	1.97E+00	1.887
ppm@7%O2	3.31E+00	2.82E+00	3.74E+00	3.290

## **Stack Exit - Method 6C 3 6**

### **Sulfur Dioxide**

Run	2.3	2.4	3.1	
Elb/hr	4.61E-01	5.68E-01	3.59E-01	0.463
mg/dscm	4.91E+00	6.05E+00	4.28E+00	5.080
mg/dscm@7%O2	8.37E+00	1.01E+01	8.21E+00	8.893
ppm	1.84E+00	2.27E+00	1.61E+00	1.907
ppm@7%O2	3.14E+00	3.79E+00	3.09E+00	3.340

# **CCCSD Information Collection Request Source Test for EPA**

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## **Stack Exit - Method 6C 3 6 9**

### Sulfur Dioxide

Run	3.2	3.3	3.4	
Elb/hr	5.08E-01	3.14E-01	3.30E-01	0.384
mg/dscm	6.05E+00	3.73E+00	3.93E+00	4.570
mg/dscm@7%O2	1.15E+01	7.25E+00	7.57E+00	8.773
ppm	2.27E+00	1.40E+00	1.48E+00	1.717
ppm@7%O2	4.31E+00	2.72E+00	2.85E+00	3.293

## **Stack Exit - Method 7E**

### Nitrogen oxides (NOx)

Run	1.1	1.2	1.3	
Elb/hr	8.21E+00	6.77E+00	6.72E+00	7.233
mg/dscm	8.94E+01	7.81E+01	7.75E+01	81.667
mg/dscm@7%O2	1.36E+02	1.31E+02	1.34E+02	133.667
ppm	4.67E+01	4.08E+01	4.05E+01	42.667
ppm@7%O2	7.11E+01	6.85E+01	7.02E+01	69.933

## **Stack Exit - Method 7E 3**

### Nitrogen oxides (NOx)

Run	1.4	2.1	2.2	
Elb/hr	7.74E+00	9.86E+00	8.73E+00	8.777
mg/dscm	8.93E+01	1.11E+02	9.29E+01	97.733
mg/dscm@7%O2	1.42E+02	1.94E+02	1.76E+02	170.667
ppm	4.67E+01	5.78E+01	4.86E+01	51.033
ppm@7%O2	7.43E+01	1.01E+02	9.23E+01	89.200

## **Stack Exit - Method 7E 3 6**

### Nitrogen oxides (NOx)

Run	2.3	2.4	3.1	
Elb/hr	1.03E+01	9.94E+00	6.90E+00	9.047
mg/dscm	1.10E+02	1.06E+02	8.21E+01	99.367
mg/dscm@7%O2	1.87E+02	1.77E+02	1.57E+02	173.667
ppm	5.75E+01	5.54E+01	4.29E+01	51.933
ppm@7%O2	9.80E+01	9.25E+01	8.22E+01	90.900

## **Stack Exit - Method 7E 3 6 9**

### Nitrogen oxides (NOx)

Run	3.2	3.3	3.4	
Elb/hr	7.16E+00	6.49E+00	6.41E+00	6.687
mg/dscm	8.53E+01	7.73E+01	7.63E+01	79.633
mg/dscm@7%O2	1.62E+02	1.50E+02	1.47E+02	153.000
ppm	4.46E+01	4.04E+01	3.99E+01	41.633
ppm@7%O2	8.46E+01	7.85E+01	7.68E+01	79.967



# CCCSO Information Collection Request Source Test for EPA

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## Stack Exit - OTM - 27/28

### Filterable Particulate

RunNumber	1	2	3	
Mass_mg	26.75	30.29	28.32	28.453
Elb/hr	1.13E+00	1.12E+00	1.02E+00	1.090
mg/dscm	1.15E+01	1.15E+01	1.11E+01	11.367
mg/dscm@7%O2	1.76E+01	1.93E+01	1.93E+01	18.733

### Filterable PM2.5

RunNumber	1	2	3	
Mass_mg	26.75	30.29	28.32	28.453
Elb/hr	1.13E+00	1.12E+00	1.02E+00	1.090
mg/dscm	1.15E+01	1.15E+01	1.11E+01	11.367
mg/dscm@7%O2	1.76E+01	1.93E+01	1.93E+01	18.733

### Inorganic (Aqueous) Condensable Pa

RunNumber	1	2	3	
Mass_mg	3.44	5.31	2.01	3.587
Elb/hr	1.45E-01	1.96E-01	7.25E-02	0.138
mg/dscm	1.48E+00	2.02E+00	7.86E-01	1.429
mg/dscm@7%O2	2.26E+00	3.38E+00	1.37E+00	2.337

### Organic Condensable Particulate

RunNumber	1	2	3	
Mass_mg	0	0	0	0.000
Elb/hr	0.00E+00	0.00E+00	0.00E+00	0.000
mg/dscm	0.00E+00	0.00E+00	0.00E+00	0.000
mg/dscm@7%O2	0.00E+00	0.00E+00	0.00E+00	0.000

### Total PM2.5

RunNumber	1	2	3	
Mass_mg	30.19	35.6	30.33	32.040
Elb/hr	1.27E+00	1.32E+00	1.09E+00	1.227
mg/dscm	1.30E+01	1.35E+01	1.19E+01	12.800
mg/dscm@7%O2	1.99E+01	2.26E+01	2.07E+01	21.067

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3	Total hydrocarbons	12	C as propane C	10
4	Total hydrocarbons	14	C as propane C	10
5	Total hydrocarbons	11	C as propane C	10
6	Total hydrocarbons	17	C as propane C	10
7	Total hydrocarbons	16	C as propane C	10
8	Total hydrocarbons	16	C as propane C	10
1	Natural gas flow	7.7	MMBTu/hr	7.2
9	Natural gas flow	5.5	MMBTu/hr	7.2
10	Natural gas flow	5.5	MMBTu/hr	7.2
11	Natural gas flow	5.6	MMBTu/hr	7.2
12	Natural gas flow	5.9	MMBTu/hr	7.2
13	Natural gas flow	7.2	MMBTu/hr	7.2
14	Natural gas flow	5.6	MMBTu/hr	7.2
15	Natural gas flow	6.3	MMBTu/hr	7.2
16	Natural gas flow	7.8	MMBTu/hr	7.2
17	Natural gas flow	7.1	MMBTu/hr	7.2
18	Natural gas flow	7.4	MMBTu/hr	7.2
19	Natural gas flow	7.2	MMBTu/hr	7.2
20	Natural gas flow	5.6	MMBTu/hr	7.2
21	Natural gas flow	6.3	MMBTu/hr	7.2
22	Natural gas flow	7.7	MMBTu/hr	7.2
23	Natural gas flow	6.6	MMBTu/hr	7.2
24	Natural gas flow	7.4	MMBTu/hr	7.2
2	Natural gas flow	7.6	MMBTu/hr	7.2
3	Natural gas flow	7.5	MMBTu/hr	7.2
4	Natural gas flow	6.9	MMBTu/hr	7.2
5	Natural gas flow	6.7	MMBTu/hr	7.2
6	Natural gas flow	7.5	MMBTu/hr	7.2
7	Natural gas flow	7.3	MMBTu/hr	7.2
8	Natural gas flow	7.5	MMBTu/hr	7.2
1	Furnace 1 waste heat recovery boiler pressure drop	1.1	in H2O	1
9	Furnace 1 waste heat recovery boiler pressure drop	0.7	in H2O	1
10	Furnace 1 waste heat recovery boiler pressure drop	0.7	in H2O	1

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11	Furnace 1 waste heat recovery boiler pressure drop	0.7	in H2O	1
12	Furnace 1 waste heat recovery boiler pressure drop	0.7	in H2O	1
13	Furnace 1 waste heat recovery boiler pressure drop	1.1	in H2O	1
14	Furnace 1 waste heat recovery boiler pressure drop	0.7	in H2O	1
15	Furnace 1 waste heat recovery boiler pressure drop	0.7	in H2O	1
16	Furnace 1 waste heat recovery boiler pressure drop	1.1	in H2O	1
17	Furnace 1 waste heat recovery boiler pressure drop	1	in H2O	1
18	Furnace 1 waste heat recovery boiler pressure drop	1	in H2O	1
19	Furnace 1 waste heat recovery boiler pressure drop	1.1	in H2O	1
20	Furnace 1 waste heat recovery boiler pressure drop	0.7	in H2O	1
21	Furnace 1 waste heat recovery boiler pressure drop	0.7	in H2O	1
22	Furnace 1 waste heat recovery boiler pressure drop	1.1	in H2O	1
23	Furnace 1 waste heat recovery boiler pressure drop	1	in H2O	1
24	Furnace 1 waste heat recovery boiler pressure drop	1	in H2O	1
2	Furnace 1 waste heat recovery boiler pressure drop	0.9	in H2O	1
3	Furnace 1 waste heat recovery boiler pressure drop	1	in H2O	1
4	Furnace 1 waste heat recovery boiler pressure drop	1	in H2O	1
5	Furnace 1 waste heat recovery boiler pressure drop	1.1	in H2O	1
6	Furnace 1 waste heat recovery boiler pressure drop	0.9	in H2O	1
7	Furnace 1 waste heat recovery boiler pressure drop	1.1	in H2O	1
8	Furnace 1 waste heat recovery boiler pressure drop	1.1	in H2O	1
1	Furnace 1 waste heat recovery boiler outlet temperature	594	deg F	550
9	Furnace 1 waste heat recovery boiler outlet temperature	541	deg F	550
10	Furnace 1 waste heat recovery boiler outlet temperature	539	deg F	550
11	Furnace 1 waste heat recovery boiler outlet temperature	539	deg F	550
12	Furnace 1 waste heat recovery boiler outlet temperature	541	deg F	550
13	Furnace 1 waste heat recovery boiler outlet temperature	570	deg F	550
14	Furnace 1 waste heat recovery boiler outlet temperature	540	deg F	550
15	Furnace 1 waste heat recovery boiler outlet temperature	561	deg F	550
16	Furnace 1 waste heat recovery boiler outlet temperature	589	deg F	550

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17	Furnace 1 waste heat recovery boiler outlet temperature	591	deg F	550
18	Furnace 1 waste heat recovery boiler outlet temperature	569	deg F	550
19	Furnace 1 waste heat recovery boiler outlet temperature	570	deg F	550
20	Furnace 1 waste heat recovery boiler outlet temperature	540	deg F	550
21	Furnace 1 waste heat recovery boiler outlet temperature	561	deg F	550
22	Furnace 1 waste heat recovery boiler outlet temperature	590	deg F	550
23	Furnace 1 waste heat recovery boiler outlet temperature	589	deg F	550
24	Furnace 1 waste heat recovery boiler outlet temperature	571	deg F	550
2	Furnace 1 waste heat recovery boiler outlet temperature	586	deg F	550
3	Furnace 1 waste heat recovery boiler outlet temperature	594	deg F	550
4	Furnace 1 waste heat recovery boiler outlet temperature	582	deg F	550
5	Furnace 1 waste heat recovery boiler outlet temperature	580	deg F	550
6	Furnace 1 waste heat recovery boiler outlet temperature	549	deg F	550
7	Furnace 1 waste heat recovery boiler outlet temperature	566	deg F	550
8	Furnace 1 waste heat recovery boiler outlet temperature	568	deg F	550
1	Furnace 1 wet scrubber pressure drop	12.5	in H2O	10
9	Furnace 1 wet scrubber pressure drop	11	in H2O	10
10	Furnace 1 wet scrubber pressure drop	11.1	in H2O	10
11	Furnace 1 wet scrubber pressure drop	10.9	in H2O	10
12	Furnace 1 wet scrubber pressure drop	10.7	in H2O	10
13	Furnace 1 wet scrubber pressure drop	12.4	in H2O	10
14	Furnace 1 wet scrubber pressure drop	11	in H2O	10
15	Furnace 1 wet scrubber pressure drop	10.8	in H2O	10
16	Furnace 1 wet scrubber pressure drop	12.5	in H2O	10
17	Furnace 1 wet scrubber pressure drop	12.1	in H2O	10
18	Furnace 1 wet scrubber pressure drop	12.2	in H2O	10
19	Furnace 1 wet scrubber pressure drop	12.4	in H2O	10
20	Furnace 1 wet scrubber pressure drop	11	in H2O	10

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21	Furnace 1 wet scrubber pressure drop	10.8	in H2O	10
22	Furnace 1 wet scrubber pressure drop	12.5	in H2O	10
23	Furnace 1 wet scrubber pressure drop	12.1	in H2O	10
24	Furnace 1 wet scrubber pressure drop	12.2	in H2O	10
2	Furnace 1 wet scrubber pressure drop	11.7	in H2O	10
3	Furnace 1 wet scrubber pressure drop	12.1	in H2O	10
4	Furnace 1 wet scrubber pressure drop	12.1	in H2O	10
5	Furnace 1 wet scrubber pressure drop	12.3	in H2O	10
6	Furnace 1 wet scrubber pressure drop	11.6	in H2O	10
7	Furnace 1 wet scrubber pressure drop	12.4	in H2O	10
8	Furnace 1 wet scrubber pressure drop	12.6	in H2O	10
1	Furnace 1 wet scrubber exhaust temperature	74	deg F	73
9	Furnace 1 wet scrubber exhaust temperature	70	deg F	73
10	Furnace 1 wet scrubber exhaust temperature	70	deg F	73
11	Furnace 1 wet scrubber exhaust temperature	70	deg F	73
12	Furnace 1 wet scrubber exhaust temperature	70	deg F	73
13	Furnace 1 wet scrubber exhaust temperature	75	deg F	73
14	Furnace 1 wet scrubber exhaust temperature	70	deg F	73
15	Furnace 1 wet scrubber exhaust temperature	70	deg F	73
16	Furnace 1 wet scrubber exhaust temperature	74	deg F	73
17	Furnace 1 wet scrubber exhaust temperature	73	deg F	73
18	Furnace 1 wet scrubber exhaust temperature	74	deg F	73
19	Furnace 1 wet scrubber exhaust temperature	75	deg F	73
20	Furnace 1 wet scrubber exhaust temperature	70	deg F	73
21	Furnace 1 wet scrubber exhaust temperature	70	deg F	73
22	Furnace 1 wet scrubber exhaust temperature	74	deg F	73
23	Furnace 1 wet scrubber exhaust temperature	73	deg F	73
24	Furnace 1 wet scrubber exhaust temperature	74	deg F	73
2	Furnace 1 wet scrubber exhaust temperature	72	deg F	73
3	Furnace 1 wet scrubber exhaust temperature	73	deg F	73
4	Furnace 1 wet scrubber exhaust temperature	72	deg F	73
5	Furnace 1 wet scrubber exhaust temperature	75	deg F	73
6	Furnace 1 wet scrubber exhaust temperature	72	deg F	73
7	Furnace 1 wet scrubber exhaust temperature	74	deg F	73
8	Furnace 1 wet scrubber exhaust temperature	75	deg F	73
1	Induced draft fan speed	65	% of max. speed	60

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9	Induced draft fan speed	59	% of max. spee	60
10	Induced draft fan speed	59	% of max. spee	60
11	Induced draft fan speed	59	% of max. spee	60
12	Induced draft fan speed	59	% of max. spee	60
13	Induced draft fan speed	65	% of max. spee	60
14	Induced draft fan speed	59	% of max. spee	60
15	Induced draft fan speed	58	% of max. spee	60
16	Induced draft fan speed	65	% of max. spee	60
17	Induced draft fan speed	64	% of max. spee	60
18	Induced draft fan speed	64	% of max. spee	60
19	Induced draft fan speed	65	% of max. spee	60
20	Induced draft fan speed	59	% of max. spee	60
21	Induced draft fan speed	58	% of max. spee	60
22	Induced draft fan speed	65	% of max. spee	60
23	Induced draft fan speed	64	% of max. spee	60
24	Induced draft fan speed	64	% of max. spee	60
2	Induced draft fan speed	62	% of max. spee	60
3	Induced draft fan speed	64	% of max. spee	60
4	Induced draft fan speed	63	% of max. spee	60
5	Induced draft fan speed	65	% of max. spee	60
6	Induced draft fan speed	61	% of max. spee	60
7	Induced draft fan speed	65	% of max. spee	60
8	Induced draft fan speed	66	% of max. spee	60
1	Furnace 1 center shaft cooling air temperature	251	deg F	250
9	Furnace 1 center shaft cooling air temperature	239	deg F	250
10	Furnace 1 center shaft cooling air temperature	239	deg F	250
11	Furnace 1 center shaft cooling air temperature	239	deg F	250
12	Furnace 1 center shaft cooling air temperature	240	deg F	250
13	Furnace 1 center shaft cooling air temperature	247	deg F	250
14	Furnace 1 center shaft cooling air temperature	239	deg F	250
15	Furnace 1 center shaft cooling air temperature	244	deg F	250
16	Furnace 1 center shaft cooling air temperature	245	deg F	250
17	Furnace 1 center shaft cooling air temperature	252	deg F	250
18	Furnace 1 center shaft cooling air temperature	245	deg F	250
19	Furnace 1 center shaft cooling air temperature	247	deg F	250
20	Furnace 1 center shaft cooling air temperature	239	deg F	250

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21	Furnace 1 center shaft cooling air temperature	244	deg F	250
22	Furnace 1 center shaft cooling air temperature	246	deg F	250
23	Furnace 1 center shaft cooling air temperature	252	deg F	250
24	Furnace 1 center shaft cooling air temperature	245	deg F	250
2	Furnace 1 center shaft cooling air temperature	253	deg F	250
3	Furnace 1 center shaft cooling air temperature	254	deg F	250
4	Furnace 1 center shaft cooling air temperature	250	deg F	250
5	Furnace 1 center shaft cooling air temperature	249	deg F	250
6	Furnace 1 center shaft cooling air temperature	246	deg F	250
7	Furnace 1 center shaft cooling air temperature	247	deg F	250
8	Furnace 1 center shaft cooling air temperature	247	deg F	250
1	Furnace 1 Hearth 2 temperature	1204	deg F	1100
9	Furnace 1 Hearth 2 temperature	1160	deg F	1100
10	Furnace 1 Hearth 2 temperature	1158	deg F	1100
11	Furnace 1 Hearth 2 temperature	1155	deg F	1100
12	Furnace 1 Hearth 2 temperature	1152	deg F	1100
13	Furnace 1 Hearth 2 temperature	1144	deg F	1100
14	Furnace 1 Hearth 2 temperature	1157	deg F	1100
15	Furnace 1 Hearth 2 temperature	1228	deg F	1100
16	Furnace 1 Hearth 2 temperature	1187	deg F	1100
17	Furnace 1 Hearth 2 temperature	1199	deg F	1100
18	Furnace 1 Hearth 2 temperature	1154	deg F	1100
19	Furnace 1 Hearth 2 temperature	1144	deg F	1100
20	Furnace 1 Hearth 2 temperature	1157	deg F	1100
21	Furnace 1 Hearth 2 temperature	1228	deg F	1100
22	Furnace 1 Hearth 2 temperature	1190	deg F	1100
23	Furnace 1 Hearth 2 temperature	1199	deg F	1100
24	Furnace 1 Hearth 2 temperature	1158	deg F	1100
2	Furnace 1 Hearth 2 temperature	1195	deg F	1100
3	Furnace 1 Hearth 2 temperature	1202	deg F	1100
4	Furnace 1 Hearth 2 temperature	1171	deg F	1100
5	Furnace 1 Hearth 2 temperature	1191	deg F	1100
6	Furnace 1 Hearth 2 temperature	1112	deg F	1100
7	Furnace 1 Hearth 2 temperature	1128	deg F	1100
8	Furnace 1 Hearth 2 temperature	1131	deg F	1100
1	Furnace 1 Hearth 3 temperature	1430	deg F	1400

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9	Furnace 1 Hearth 3 temperature	1487	deg F	1400
10	Furnace 1 Hearth 3 temperature	1477	deg F	1400
11	Furnace 1 Hearth 3 temperature	1469	deg F	1400
12	Furnace 1 Hearth 3 temperature	1463	deg F	1400
13	Furnace 1 Hearth 3 temperature	1381	deg F	1400
14	Furnace 1 Hearth 3 temperature	1478	deg F	1400
15	Furnace 1 Hearth 3 temperature	1583	deg F	1400
16	Furnace 1 Hearth 3 temperature	1413	deg F	1400
17	Furnace 1 Hearth 3 temperature	1429	deg F	1400
18	Furnace 1 Hearth 3 temperature	1401	deg F	1400
19	Furnace 1 Hearth 3 temperature	1381	deg F	1400
20	Furnace 1 Hearth 3 temperature	1478	deg F	1400
21	Furnace 1 Hearth 3 temperature	1583	deg F	1400
22	Furnace 1 Hearth 3 temperature	1418	deg F	1400
23	Furnace 1 Hearth 3 temperature	1445	deg F	1400
24	Furnace 1 Hearth 3 temperature	1409	deg F	1400
2	Furnace 1 Hearth 3 temperature	1429	deg F	1400
3	Furnace 1 Hearth 3 temperature	1433	deg F	1400
4	Furnace 1 Hearth 3 temperature	1372	deg F	1400
5	Furnace 1 Hearth 3 temperature	1465	deg F	1400
6	Furnace 1 Hearth 3 temperature	1355	deg F	1400
7	Furnace 1 Hearth 3 temperature	1363	deg F	1400
8	Furnace 1 Hearth 3 temperature	1344	deg F	1400
1	Furnace 1 Hearth 4 temperature	1460	deg F	1400
9	Furnace 1 Hearth 4 temperature	1514	deg F	1400
10	Furnace 1 Hearth 4 temperature	1508	deg F	1400
11	Furnace 1 Hearth 4 temperature	1502	deg F	1400
12	Furnace 1 Hearth 4 temperature	1502	deg F	1400
13	Furnace 1 Hearth 4 temperature	1435	deg F	1400
14	Furnace 1 Hearth 4 temperature	1509	deg F	1400
15	Furnace 1 Hearth 4 temperature	1589	deg F	1400
16	Furnace 1 Hearth 4 temperature	1448	deg F	1400
17	Furnace 1 Hearth 4 temperature	1472	deg F	1400
18	Furnace 1 Hearth 4 temperature	1467	deg F	1400
19	Furnace 1 Hearth 4 temperature	1435	deg F	1400
20	Furnace 1 Hearth 4 temperature	1509	deg F	1400



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21	Furnace 1 Hearth 4 temperature	1589	deg F	1400
22	Furnace 1 Hearth 4 temperature	1454	deg F	1400
23	Furnace 1 Hearth 4 temperature	1484	deg F	1400
24	Furnace 1 Hearth 4 temperature	1474	deg F	1400
2	Furnace 1 Hearth 4 temperature	1468	deg F	1400
3	Furnace 1 Hearth 4 temperature	1486	deg F	1400
4	Furnace 1 Hearth 4 temperature	1421	deg F	1400
5	Furnace 1 Hearth 4 temperature	1540	deg F	1400
6	Furnace 1 Hearth 4 temperature	1399	deg F	1400
7	Furnace 1 Hearth 4 temperature	1413	deg F	1400
8	Furnace 1 Hearth 4 temperature	1392	deg F	1400
1	Furnace 1 Hearth 5 temperature	1744	deg F	1700
9	Furnace 1 Hearth 5 temperature	1693	deg F	1700
10	Furnace 1 Hearth 5 temperature	1693	deg F	1700
11	Furnace 1 Hearth 5 temperature	1695	deg F	1700
12	Furnace 1 Hearth 5 temperature	1683	deg F	1700
13	Furnace 1 Hearth 5 temperature	1813	deg F	1700
14	Furnace 1 Hearth 5 temperature	1694	deg F	1700
15	Furnace 1 Hearth 5 temperature	1632	deg F	1700
16	Furnace 1 Hearth 5 temperature	1738	deg F	1700
17	Furnace 1 Hearth 5 temperature	1747	deg F	1700
18	Furnace 1 Hearth 5 temperature	1773	deg F	1700
19	Furnace 1 Hearth 5 temperature	1813	deg F	1700
20	Furnace 1 Hearth 5 temperature	1694	deg F	1700
21	Furnace 1 Hearth 5 temperature	1632	deg F	1700
22	Furnace 1 Hearth 5 temperature	1735	deg F	1700
23	Furnace 1 Hearth 5 temperature	1721	deg F	1700
24	Furnace 1 Hearth 5 temperature	1776	deg F	1700
2	Furnace 1 Hearth 5 temperature	1719	deg F	1700
3	Furnace 1 Hearth 5 temperature	1733	deg F	1700
4	Furnace 1 Hearth 5 temperature	1788	deg F	1700
5	Furnace 1 Hearth 5 temperature	1754	deg F	1700
6	Furnace 1 Hearth 5 temperature	1837	deg F	1700
7	Furnace 1 Hearth 5 temperature	1845	deg F	1700
8	Furnace 1 Hearth 5 temperature	1842	deg F	1700
1	Furnace 1 Hearth 6 temperature	1366	deg F	1300

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9	Furnace 1 Hearth 6 temperature	1342	deg F	1300
10	Furnace 1 Hearth 6 temperature	1351	deg F	1300
11	Furnace 1 Hearth 6 temperature	1361	deg F	1300
12	Furnace 1 Hearth 6 temperature	1350	deg F	1300
13	Furnace 1 Hearth 6 temperature	1587	deg F	1300
14	Furnace 1 Hearth 6 temperature	1349	deg F	1300
15	Furnace 1 Hearth 6 temperature	1340	deg F	1300
16	Furnace 1 Hearth 6 temperature	1361	deg F	1300
17	Furnace 1 Hearth 6 temperature	1375	deg F	1300
18	Furnace 1 Hearth 6 temperature	1506	deg F	1300
19	Furnace 1 Hearth 6 temperature	1586	deg F	1300
20	Furnace 1 Hearth 6 temperature	1349	deg F	1300
21	Furnace 1 Hearth 6 temperature	1340	deg F	1300
22	Furnace 1 Hearth 6 temperature	1358	deg F	1300
23	Furnace 1 Hearth 6 temperature	1350	deg F	1300
24	Furnace 1 Hearth 6 temperature	1508	deg F	1300
2	Furnace 1 Hearth 6 temperature	1376	deg F	1300
3	Furnace 1 Hearth 6 temperature	1366	deg F	1300
4	Furnace 1 Hearth 6 temperature	1412	deg F	1300
5	Furnace 1 Hearth 6 temperature	1456	deg F	1300
6	Furnace 1 Hearth 6 temperature	1641	deg F	1300
7	Furnace 1 Hearth 6 temperature	1630	deg F	1300
8	Furnace 1 Hearth 6 temperature	1644	deg F	1300
1	Furnace 1 Hearth 7 temperature	818	deg F	800
9	Furnace 1 Hearth 7 temperature	802	deg F	800
10	Furnace 1 Hearth 7 temperature	814	deg F	800
11	Furnace 1 Hearth 7 temperature	839	deg F	800
12	Furnace 1 Hearth 7 temperature	852	deg F	800
13	Furnace 1 Hearth 7 temperature	882	deg F	800
14	Furnace 1 Hearth 7 temperature	815	deg F	800
15	Furnace 1 Hearth 7 temperature	863	deg F	800
16	Furnace 1 Hearth 7 temperature	801	deg F	800
17	Furnace 1 Hearth 7 temperature	818	deg F	800
18	Furnace 1 Hearth 7 temperature	900	deg F	800
19	Furnace 1 Hearth 7 temperature	882	deg F	800
20	Furnace 1 Hearth 7 temperature	815	deg F	800

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21	Furnace 1 Hearth 7 temperature	863	deg F	800
22	Furnace 1 Hearth 7 temperature	800	deg F	800
23	Furnace 1 Hearth 7 temperature	804	deg F	800
24	Furnace 1 Hearth 7 temperature	896	deg F	800
2	Furnace 1 Hearth 7 temperature	848	deg F	800
3	Furnace 1 Hearth 7 temperature	831	deg F	800
4	Furnace 1 Hearth 7 temperature	786	deg F	800
5	Furnace 1 Hearth 7 temperature	881	deg F	800
6	Furnace 1 Hearth 7 temperature	950	deg F	800
7	Furnace 1 Hearth 7 temperature	922	deg F	800
8	Furnace 1 Hearth 7 temperature	919	deg F	800
1	Furnace 1 Hearth 8 temperature	616	deg F	600
9	Furnace 1 Hearth 8 temperature	443	deg F	600
10	Furnace 1 Hearth 8 temperature	451	deg F	600
11	Furnace 1 Hearth 8 temperature	454	deg F	600
12	Furnace 1 Hearth 8 temperature	517	deg F	600
13	Furnace 1 Hearth 8 temperature	703	deg F	600
14	Furnace 1 Hearth 8 temperature	456	deg F	600
15	Furnace 1 Hearth 8 temperature	669	deg F	600
16	Furnace 1 Hearth 8 temperature	611	deg F	600
17	Furnace 1 Hearth 8 temperature	616	deg F	600
18	Furnace 1 Hearth 8 temperature	714	deg F	600
19	Furnace 1 Hearth 8 temperature	703	deg F	600
20	Furnace 1 Hearth 8 temperature	456	deg F	600
21	Furnace 1 Hearth 8 temperature	669	deg F	600
22	Furnace 1 Hearth 8 temperature	611	deg F	600
23	Furnace 1 Hearth 8 temperature	602	deg F	600
24	Furnace 1 Hearth 8 temperature	714	deg F	600
2	Furnace 1 Hearth 8 temperature	641	deg F	600
3	Furnace 1 Hearth 8 temperature	631	deg F	600
4	Furnace 1 Hearth 8 temperature	582	deg F	600
5	Furnace 1 Hearth 8 temperature	698	deg F	600
6	Furnace 1 Hearth 8 temperature	735	deg F	600
7	Furnace 1 Hearth 8 temperature	739	deg F	600
8	Furnace 1 Hearth 8 temperature	732	deg F	600
1	Furnace 1 Hearth 9 temperature	219	deg F	200

**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

9	Furnace 1 Hearth 9 temperature	292	deg F	200
10	Furnace 1 Hearth 9 temperature	306	deg F	200
11	Furnace 1 Hearth 9 temperature	316	deg F	200
12	Furnace 1 Hearth 9 temperature	301	deg F	200
13	Furnace 1 Hearth 9 temperature	259	deg F	200
14	Furnace 1 Hearth 9 temperature	298	deg F	200
15	Furnace 1 Hearth 9 temperature	287	deg F	200
16	Furnace 1 Hearth 9 temperature	219	deg F	200
17	Furnace 1 Hearth 9 temperature	229	deg F	200
18	Furnace 1 Hearth 9 temperature	252	deg F	200
19	Furnace 1 Hearth 9 temperature	259	deg F	200
20	Furnace 1 Hearth 9 temperature	298	deg F	200
21	Furnace 1 Hearth 9 temperature	287	deg F	200
22	Furnace 1 Hearth 9 temperature	218	deg F	200
23	Furnace 1 Hearth 9 temperature	231	deg F	200
24	Furnace 1 Hearth 9 temperature	248	deg F	200
2	Furnace 1 Hearth 9 temperature	235	deg F	200
3	Furnace 1 Hearth 9 temperature	225	deg F	200
4	Furnace 1 Hearth 9 temperature	239	deg F	200
5	Furnace 1 Hearth 9 temperature	257	deg F	200
6	Furnace 1 Hearth 9 temperature	344	deg F	200
7	Furnace 1 Hearth 9 temperature	260	deg F	200
8	Furnace 1 Hearth 9 temperature	248	deg F	200
1	Furnace 1 Hearth 10 tempearture	200	deg F	200
9	Furnace 1 Hearth 10 tempearture	200	deg F	200
10	Furnace 1 Hearth 10 tempearture	200	deg F	200
11	Furnace 1 Hearth 10 tempearture	200	deg F	200
12	Furnace 1 Hearth 10 tempearture	200	deg F	200
13	Furnace 1 Hearth 10 tempearture	201	deg F	200
14	Furnace 1 Hearth 10 tempearture	200	deg F	200
15	Furnace 1 Hearth 10 tempearture	201	deg F	200
16	Furnace 1 Hearth 10 tempearture	200	deg F	200
17	Furnace 1 Hearth 10 tempearture	200	deg F	200
18	Furnace 1 Hearth 10 tempearture	202	deg F	200
19	Furnace 1 Hearth 10 tempearture	201	deg F	200
20	Furnace 1 Hearth 10 tempearture	200	deg F	200

**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

21	Furnace 1 Hearth 10 tempearture	201	deg F	200
22	Furnace 1 Hearth 10 tempearture	200	deg F	200
23	Furnace 1 Hearth 10 tempearture	200	deg F	200
24	Furnace 1 Hearth 10 tempearture	201	deg F	200
2	Furnace 1 Hearth 10 tempearture	200	deg F	200
3	Furnace 1 Hearth 10 tempearture	200	deg F	200
4	Furnace 1 Hearth 10 tempearture	200	deg F	200
5	Furnace 1 Hearth 10 tempearture	200	deg F	200
6	Furnace 1 Hearth 10 tempearture	202	deg F	200
7	Furnace 1 Hearth 10 tempearture	200	deg F	200
8	Furnace 1 Hearth 10 tempearture	200	deg F	200
1	Waste Heat Recovery Boiler Steam Production	12379	lbs/hr	12000
9	Waste Heat Recovery Boiler Steam Production	9512	lbs/hr	12000
10	Waste Heat Recovery Boiler Steam Production	9323	lbs/hr	12000
11	Waste Heat Recovery Boiler Steam Production	9184	lbs/hr	12000
12	Waste Heat Recovery Boiler Steam Production	9239	lbs/hr	12000
13	Waste Heat Recovery Boiler Steam Production	11228	lbs/hr	12000
14	Waste Heat Recovery Boiler Steam Production	9377	lbs/hr	12000
15	Waste Heat Recovery Boiler Steam Production	10251	lbs/hr	12000
16	Waste Heat Recovery Boiler Steam Production	12204	lbs/hr	12000
17	Waste Heat Recovery Boiler Steam Production	12077	lbs/hr	12000
18	Waste Heat Recovery Boiler Steam Production	11430	lbs/hr	12000
19	Waste Heat Recovery Boiler Steam Production	11228	lbs/hr	12000
20	Waste Heat Recovery Boiler Steam Production	9378	lbs/hr	12000
21	Waste Heat Recovery Boiler Steam Production	10254	lbs/hr	12000
22	Waste Heat Recovery Boiler Steam Production	12246	lbs/hr	12000
23	Waste Heat Recovery Boiler Steam Production	11934	lbs/hr	12000
24	Waste Heat Recovery Boiler Steam Production	11564	lbs/hr	12000
2	Waste Heat Recovery Boiler Steam Production	11762	lbs/hr	12000
3	Waste Heat Recovery Boiler Steam Production	12207	lbs/hr	12000
4	Waste Heat Recovery Boiler Steam Production	11471	lbs/hr	12000
5	Waste Heat Recovery Boiler Steam Production	11966	lbs/hr	12000
6	Waste Heat Recovery Boiler Steam Production	10117	lbs/hr	12000
7	Waste Heat Recovery Boiler Steam Production	11017	lbs/hr	12000
8	Waste Heat Recovery Boiler Steam Production	11066	lbs/hr	12000
1	Furnace 1 Hearth 11 Temperature	112	Deg F	200

**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

9	Furnace 1 Hearth 11 Temperature	116	Deg F	200
10	Furnace 1 Hearth 11 Temperature	117	Deg F	200
11	Furnace 1 Hearth 11 Temperature	117	Deg F	200
12	Furnace 1 Hearth 11 Temperature	117	Deg F	200
13	Furnace 1 Hearth 11 Temperature	118	Deg F	200
14	Furnace 1 Hearth 11 Temperature	117	Deg F	200
15	Furnace 1 Hearth 11 Temperature	116	Deg F	200
16	Furnace 1 Hearth 11 Temperature	111	Deg F	200
17	Furnace 1 Hearth 11 Temperature	113	Deg F	200
18	Furnace 1 Hearth 11 Temperature	117	Deg F	200
19	Furnace 1 Hearth 11 Temperature	118	Deg F	200
20	Furnace 1 Hearth 11 Temperature	117	Deg F	200
21	Furnace 1 Hearth 11 Temperature	116	Deg F	200
22	Furnace 1 Hearth 11 Temperature	111	Deg F	200
23	Furnace 1 Hearth 11 Temperature	113	Deg F	200
24	Furnace 1 Hearth 11 Temperature	117	Deg F	200
2	Furnace 1 Hearth 11 Temperature	113	Deg F	200
3	Furnace 1 Hearth 11 Temperature	113	Deg F	200
4	Furnace 1 Hearth 11 Temperature	115	Deg F	200
5	Furnace 1 Hearth 11 Temperature	116	Deg F	200
6	Furnace 1 Hearth 11 Temperature	118	Deg F	200
7	Furnace 1 Hearth 11 Temperature	120	Deg F	200
8	Furnace 1 Hearth 11 Temperature	121	Deg F	200
1	Furnace 1 draft	-0.48	in WC	-0.5
9	Furnace 1 draft	-0.45	in WC	-0.5
10	Furnace 1 draft	-0.45	in WC	-0.5
11	Furnace 1 draft	-0.45	in WC	-0.5
12	Furnace 1 draft	-0.45	in WC	-0.5
13	Furnace 1 draft	-0.48	in WC	-0.5
14	Furnace 1 draft	-0.45	in WC	-0.5
15	Furnace 1 draft	-0.43	in WC	-0.5
16	Furnace 1 draft	-0.48	in WC	-0.5
17	Furnace 1 draft	-0.49	in WC	-0.5
18	Furnace 1 draft	-0.46	in WC	-0.5
19	Furnace 1 draft	-0.48	in WC	-0.5
20	Furnace 1 draft	-0.45	in WC	-0.5

# CCCSD Information Collection Request Source Test for EPA

2/16/2010

21	Furance 1 draft	-0.44	in WC	-0.5
22	Furance 1 draft	-0.48	in WC	-0.5
23	Furance 1 draft	-0.5	in WC	-0.5
24	Furance 1 draft	-0.46	in WC	-0.5
2	Furance 1 draft	-0.48	in WC	-0.5
3	Furance 1 draft	-0.49	in WC	-0.5
4	Furance 1 draft	-0.48	in WC	-0.5
5	Furance 1 draft	-0.5	in WC	-0.5
6	Furance 1 draft	-0.43	in WC	-0.5
7	Furance 1 draft	-0.48	in WC	-0.5
8	Furance 1 draft	-0.48	in WC	-0.5
7	Dried Sludge Fed	1.9	Tons/hr	2.1
8	Dried Sludge Fed	1.9	Tons/hr	2.1
11	Dried Sludge Fed	1.6	Tons/hr	2.1
12	Dried Sludge Fed	1.6	Tons/hr	2.1
13	Dried Sludge Fed	1.6	Tons/hr	2.1
14	Dried Sludge Fed	1.6	Tons/hr	2.1
15	Dried Sludge Fed	1.7	Tons/hr	2.1
16	Dried Sludge Fed	2.1	Tons/hr	2.1
17	Dried Sludge Fed	2	Tons/hr	2.1
1	Dried Sludge Fed	2	Tons/hr	2.1
9	Dried Sludge Fed	1.6	Tons/hr	2.1
10	Dried Sludge Fed	1.6	Tons/hr	2.1
18	Dried Sludge Fed	2	Tons/hr	2.1
19	Dried Sludge Fed	1.9	Tons/hr	2.1
20	Dried Sludge Fed	1.6	Tons/hr	2.1
21	Dried Sludge Fed	1.7	Tons/hr	2.1
22	Dried Sludge Fed	2.1	Tons/hr	2.1
23	Dried Sludge Fed	2	Tons/hr	2.1
24	Dried Sludge Fed	2	Tons/hr	2.1
2	Dried Sludge Fed	2	Tons/hr	2.1
3	Dried Sludge Fed	2	Tons/hr	2.1
4	Dried Sludge Fed	2	Tons/hr	2.1
5	Dried Sludge Fed	1.9	Tons/hr	2.1
6	Dried Sludge Fed	1.9	Tons/hr	2.1
1	Furance oxygen concentration	3.2	% O2	3.5

**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

11	Furance oxygen concentration	3.5	% O2	3.5
9	Furance oxygen concentration	3.5	% O2	3.5
10	Furance oxygen concentration	3.5	% O2	3.5
12	Furance oxygen concentration	3.5	% O2	3.5
13	Furance oxygen concentration	3.4	% O2	3.5
14	Furance oxygen concentration	3.6	% O2	3.5
15	Furance oxygen concentration	3.8	% O2	3.5
16	Furance oxygen concentration	3.4	% O2	3.5
17	Furance oxygen concentration	3.2	% O2	3.5
18	Furance oxygen concentration	3.6	% O2	3.5
19	Furance oxygen concentration	3.4	% O2	3.5
20	Furance oxygen concentration	3.6	% O2	3.5
21	Furance oxygen concentration	3.8	% O2	3.5
22	Furance oxygen concentration	3.4	% O2	3.5
23	Furance oxygen concentration	3.4	% O2	3.5
24	Furance oxygen concentration	3.6	% O2	3.5
2	Furance oxygen concentration	3.3	% O2	3.5
3	Furance oxygen concentration	3.3	% O2	3.5
4	Furance oxygen concentration	3.2	% O2	3.5
5	Furance oxygen concentration	3.2	% O2	3.5
6	Furance oxygen concentration	3.5	% O2	3.5
7	Furance oxygen concentration	3.5	% O2	3.5
8	Furance oxygen concentration	3.5	% O2	3.5
1	Furnace stack opacity	1.4	% opacity	1
9	Furnace stack opacity	1.4	% opacity	1
10	Furnace stack opacity	1.4	% opacity	1
11	Furnace stack opacity	1.4	% opacity	1
12	Furnace stack opacity	1.5	% opacity	1
13	Furnace stack opacity	1.5	% opacity	1
14	Furnace stack opacity	1.4	% opacity	1
15	Furnace stack opacity	1.3	% opacity	1
16	Furnace stack opacity	1.9	% opacity	1
17	Furnace stack opacity	1.4	% opacity	1
18	Furnace stack opacity	1.9	% opacity	1
19	Furnace stack opacity	1.5	% opacity	1
20	Furnace stack opacity	1.4	% opacity	1



**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

21	Furnace stack opacity	1.3	% opacity	1
22	Furnace stack opacity	1.4	% opacity	1
23	Furnace stack opacity	1.4	% opacity	1
24	Furnace stack opacity	1.9	% opacity	1
2	Furnace stack opacity	1.4	% opacity	1
3	Furnace stack opacity	1.4	% opacity	1
4	Furnace stack opacity	1.4	% opacity	1
5	Furnace stack opacity	1.4	% opacity	1
6	Furnace stack opacity	1.5	% opacity	1
7	Furnace stack opacity	1.5	% opacity	1
8	Furnace stack opacity	1.5	% opacity	1
1	Total hydrocarbons	13	C as propane (	10
9	Total hydrocarbons	24	C as propane (	10
10	Total hydrocarbons	19	C as propane (	10
11	Total hydrocarbons	22	C as propane (	10
12	Total hydrocarbons	20	C as propane (	10
13	Total hydrocarbons	16	C as propane (	10
14	Total hydrocarbons	23	C as propane (	10
15	Total hydrocarbons	9	C as propane (	10
16	Total hydrocarbons	12	C as propane (	10
17	Total hydrocarbons	13	C as propane (	10
18	Total hydrocarbons	13	C as propane (	10
19	Total hydrocarbons	16	C as propane (	10
20	Total hydrocarbons	23	C as propane (	10
21	Total hydrocarbons	9	C as propane (	10
22	Total hydrocarbons	12	C as propane (	10
23	Total hydrocarbons	13	C as propane (	10
24	Total hydrocarbons	12	C as propane (	10
2	Total hydrocarbons	13	C as propane (	10

1	AFTERBURNER	1206	Deg F	1000
10	AFTERBURNER	1125	Deg F	1000
11	AFTERBURNER	1118	Deg F	1000
12	AFTERBURNER	1115	Deg F	1000

# CCCSD Information Collection Request Source Test for EPA

2/16/2010

13	AFTERBURNER	1123	Deg F	1000
14	AFTERBURNER	1157	Deg F	1000
15	AFTERBURNER	1124	Deg F	1000
16	AFTERBURNER	1222	Deg F	1000
17	AFTERBURNER	1196	Deg F	1000
18	AFTERBURNER	1192	Deg F	1000
19	AFTERBURNER	1169	Deg F	1000
2	AFTERBURNER	1157	Deg F	1000
20	AFTERBURNER	1124	Deg F	1000
21	AFTERBURNER	1221	Deg F	1000
22	AFTERBURNER	1196	Deg F	1000
23	AFTERBURNER	1203	Deg F	1000
24	AFTERBURNER	1179	Deg F	1000
3	AFTERBURNER	1206	Deg F	1000
4	AFTERBURNER	1215	Deg F	1000
5	AFTERBURNER	1172	Deg F	1000
6	AFTERBURNER	1191	Deg F	1000
7	AFTERBURNER	1108	Deg F	1000
8	AFTERBURNER	1122	Deg F	1000
9	AFTERBURNER	1120	Deg F	1000
1	DRY SCRUBBER	0.56	In WC	0.4
10	DRY SCRUBBER	0.3	In WC	0.4
11	DRY SCRUBBER	0.33	In WC	0.4
12	DRY SCRUBBER	0.13	In WC	0.4
13	DRY SCRUBBER	0.01	In WC	0.4
14	DRY SCRUBBER	0.3	In WC	0.4
15	DRY SCRUBBER	0.02	In WC	0.4
16	DRY SCRUBBER	0.7	In WC	0.4
17	DRY SCRUBBER	0.59	In WC	0.4
18	DRY SCRUBBER	0.35	In WC	0.4
19	DRY SCRUBBER	0.36	In WC	0.4
2	DRY SCRUBBER	0.3	In WC	0.4
20	DRY SCRUBBER	0.01	In WC	0.4
21	DRY SCRUBBER	0.7	In WC	0.4
22	DRY SCRUBBER	0.62	In WC	0.4
23	DRY SCRUBBER	0.45	In WC	0.4

**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

24	DRY SCRUBBER	0.35	In WC	0.4
3	DRY SCRUBBER	0.28	In WC	0.4
4	DRY SCRUBBER	0.26	In WC	0.4
5	DRY SCRUBBER	0.3	In WC	0.4
6	DRY SCRUBBER	0.41	In WC	0.4
7	DRY SCRUBBER	0.67	In WC	0.4
8	DRY SCRUBBER	0.22	In WC	0.4
9	DRY SCRUBBER	0.29	In WC	0.4
1	IMPINGEMENT TYPE WET SCRUBBER	12.52	In WC	11
10	IMPINGEMENT TYPE WET SCRUBBER	11	In WC	11
11	IMPINGEMENT TYPE WET SCRUBBER	11.05	In WC	11
12	IMPINGEMENT TYPE WET SCRUBBER	10.89	In WC	11
13	IMPINGEMENT TYPE WET SCRUBBER	10.75	In WC	11
14	IMPINGEMENT TYPE WET SCRUBBER	12.51	In WC	11
15	IMPINGEMENT TYPE WET SCRUBBER	10.78	In WC	11
16	IMPINGEMENT TYPE WET SCRUBBER	11.13	In WC	11
17	IMPINGEMENT TYPE WET SCRUBBER	12.19	In WC	11
18	IMPINGEMENT TYPE WET SCRUBBER	12.38	In WC	11
19	IMPINGEMENT TYPE WET SCRUBBER	12.06	In WC	11
2	IMPINGEMENT TYPE WET SCRUBBER	12.51	In WC	11
20	IMPINGEMENT TYPE WET SCRUBBER	10.78	In WC	11
21	IMPINGEMENT TYPE WET SCRUBBER	11.14	In WC	11
22	IMPINGEMENT TYPE WET SCRUBBER	12.06	In WC	11
23	IMPINGEMENT TYPE WET SCRUBBER	12.46	In WC	11
24	IMPINGEMENT TYPE WET SCRUBBER	12	In WC	11
3	IMPINGEMENT TYPE WET SCRUBBER	11.67	In WC	11
4	IMPINGEMENT TYPE WET SCRUBBER	12.08	In WC	11
5	IMPINGEMENT TYPE WET SCRUBBER	12.07	In WC	11
6	IMPINGEMENT TYPE WET SCRUBBER	12.38	In WC	11
7	IMPINGEMENT TYPE WET SCRUBBER	12.58	In WC	11
8	IMPINGEMENT TYPE WET SCRUBBER	11.74	In WC	11
9	IMPINGEMENT TYPE WET SCRUBBER	11.97	In WC	11

7	Sludge percent total solids	20.25	%
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**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

9	Sludge percent total solids	19.92	%
8	Sludge percent total solids	20.17	%
11	Sludge percent total solids	20.57	%
12	Sludge percent total solids	20.04	%
13	Sludge percent total solids	19.69	%
14	Sludge percent total solids	20.16	%
15	Sludge percent total solids	19.96	%
16	Sludge percent total solids	19.87	%
17	Sludge percent total solids	19.81	%
18	Sludge percent total solids	19.49	%
1	Sludge percent total solids	19.71	%
10	Sludge percent total solids	20.6	%
19	Sludge percent total solids	19.77	%
2	Sludge percent total solids	19.74	%
20	Sludge percent total solids	20.16	%
21	Sludge percent total solids	19.96	%
22	Sludge percent total solids	19.87	%
23	Sludge percent total solids	19.75	%
24	Sludge percent total solids	19.49	%
3	Sludge percent total solids	20.09	%
4	Sludge percent total solids	19.76	%
5	Sludge percent total solids	19.37	%
6	Sludge percent total solids	19.36	%
7	Sludge percent moisture	79.75	%
9	Sludge percent moisture	80.08	%
8	Sludge percent moisture	79.83	%
1	Sludge percent moisture	80.29	%
10	Sludge percent moisture	79.41	%
11	Sludge percent moisture	79.43	%
12	Sludge percent moisture	79.96	%
13	Sludge percent moisture	80.31	%
14	Sludge percent moisture	79.84	%
15	Sludge percent moisture	80.04	%
16	Sludge percent moisture	80.13	%
17	Sludge percent moisture	80.19	%
18	Sludge percent moisture	80.51	%
19	Sludge percent moisture	80.23	%
2	Sludge percent moisture	80.26	%
20	Sludge percent moisture	79.84	%
21	Sludge percent moisture	80.04	%
22	Sludge percent moisture	80.13	%
23	Sludge percent moisture	80.25	%
24	Sludge percent moisture	80.51	%

**CCCSO Information Collection Request Source Test for EPA**

**2/16/2010**

3	Sludge percent moisture	79.92	%
4	Sludge percent moisture	80.24	%
5	Sludge percent moisture	80.63	%
6	Sludge percent moisture	80.64	%
7	Sludge percent volatile solids	80.55	%
9	Sludge percent volatile solids	80.17	%
8	Sludge percent volatile solids	81.07	%
1	Sludge percent volatile solids	80.83	%
10	Sludge percent volatile solids	78.5	%
11	Sludge percent volatile solids	78.40	%
12	Sludge percent volatile solids	78.63	%
13	Sludge percent volatile solids	80.74	%
14	Sludge percent volatile solids	79.20	%
15	Sludge percent volatile solids	80.85	%
16	Sludge percent volatile solids	80.48	%
17	Sludge percent volatile solids	80.92	%
18	Sludge percent volatile solids	80.06	%
19	Sludge percent volatile solids	80.40	%
2	Sludge percent volatile solids	80.80	%
20	Sludge percent volatile solids	79.20	%
21	Sludge percent volatile solids	80.85	%
22	Sludge percent volatile solids	80.48	%
23	Sludge percent volatile solids	81.00	%
24	Sludge percent volatile solids	80.06	%
3	Sludge percent volatile solids	80.75	%
4	Sludge percent volatile solids	81.13	%
5	Sludge percent volatile solids	80.50	%
6	Sludge percent volatile solids	80.07	%
7	Sludge Sb content	46.45	µg/kg d
9	Sludge Sb content	57.04	µg/kg d
8	Sludge Sb content	48.40	µg/kg d
1	Sludge Sb content	50.85	µg/kg d
10	Sludge Sb content	54.02	µg/kg d
11	Sludge Sb content	47.62	µg/kg d
12	Sludge Sb content	46.34	µg/kg d
13	Sludge Sb content	49.29	µg/kg d
14	Sludge Sb content	51.19	µg/kg d
15	Sludge Sb content	52.15	µg/kg d
16	Sludge Sb content	47.81	µg/kg d
17	Sludge Sb content	52.27	µg/kg d
18	Sludge Sb content	52.22	µg/kg d
19	Sludge Sb content	49.97	µg/kg d
2	Sludge Sb content	50.99	µg/kg d

**CCCSO Information Collection Request Source Test for EPA**

**2/16/2010**

20	Sludge Sb content	51.19	µg/kg d
21	Sludge Sb content	52.15	µg/kg d
22	Sludge Sb content	47.81	µg/kg d
23	Sludge Sb content	52.43	µg/kg d
24	Sludge Sb content	52.22	µg/kg d
3	Sludge Sb content	48.73	µg/kg d
4	Sludge Sb content	53.39	µg/kg d
5	Sludge Sb content	50.90	µg/kg d
6	Sludge Sb content	50.68	µg/kg d
7	Sludge As content	0.74	µg/kg d
9	Sludge As content	0.92	µg/kg d
8	Sludge As content	0.78	µg/kg d
1	Sludge As content	0.81	µg/kg d
10	Sludge As content	0.87	µg/kg d
11	Sludge As content	0.76	µg/kg d
12	Sludge As content	0.73	µg/kg d
13	Sludge As content	0.79	µg/kg d
14	Sludge As content	0.82	µg/kg d
15	Sludge As content	0.82	µg/kg d
16	Sludge As content	0.86	µg/kg d
17	Sludge As content	0.83	µg/kg d
18	Sludge As content	1.33	µg/kg d
19	Sludge As content	1.08	µg/kg d
2	Sludge As content	0.81	µg/kg d
20	Sludge As content	0.82	µg/kg d
21	Sludge As content	0.82	µg/kg d
22	Sludge As content	0.86	µg/kg d
23	Sludge As content	0.83	µg/kg d
24	Sludge As content	1.33	µg/kg d
3	Sludge As content	0.77	µg/kg d
4	Sludge As content	0.85	µg/kg d
5	Sludge As content	0.83	µg/kg d
6	Sludge As content	0.81	µg/kg d
7	Sludge Be content	0.98	µg/kg d
9	Sludge Be content	0.93	µg/kg d
8	Sludge Be content	0.98	µg/kg d
1	Sludge Be content	1.11	µg/kg d
10	Sludge Be content	0.82	µg/kg d
11	Sludge Be content	0.79	µg/kg d
12	Sludge Be content	0.75	µg/kg d
13	Sludge Be content	0.20	µg/kg d
14	Sludge Be content	0.17	µg/kg d
15	Sludge Be content	0.20	µg/kg d

**CCCSO Information Collection Request Source Test for EPA**

**2/16/2010**

16	Sludge Be content	0.25	µg/kg d
17	Sludge Be content	0.21	µg/kg d
18	Sludge Be content	0.33	µg/kg d
19	Sludge Be content	0.27	µg/kg d
2	Sludge Be content	1.03	µg/kg d
20	Sludge Be content	0.17	µg/kg d
21	Sludge Be content	0.20	µg/kg d
22	Sludge Be content	0.25	µg/kg d
23	Sludge Be content	0.20	µg/kg d
24	Sludge Be content	0.33	µg/kg d
3	Sludge Be content	0.99	µg/kg d
4	Sludge Be content	1.03	µg/kg d
5	Sludge Be content	1.07	µg/kg d
6	Sludge Be content	1.07	µg/kg d
7	Sludge Cd content	0.72	µg/kg d
9	Sludge Cd content	0.85	µg/kg d
8	Sludge Cd content	0.74	µg/kg d
1	Sludge Cd content	0.76	µg/kg d
10	Sludge Cd content	0.84	µg/kg d
11	Sludge Cd content	0.75	µg/kg d
12	Sludge Cd content	0.70	µg/kg d
13	Sludge Cd content	0.74	µg/kg d
14	Sludge Cd content	0.78	µg/kg d
15	Sludge Cd content	0.79	µg/kg d
16	Sludge Cd content	0.72	µg/kg d
17	Sludge Cd content	0.79	µg/kg d
18	Sludge Cd content	0.77	µg/kg d
19	Sludge Cd content	0.75	µg/kg d
2	Sludge Cd content	0.77	µg/kg d
20	Sludge Cd content	0.78	µg/kg d
21	Sludge Cd content	0.79	µg/kg d
22	Sludge Cd content	0.72	µg/kg d
23	Sludge Cd content	0.79	µg/kg d
24	Sludge Cd content	0.77	µg/kg d
3	Sludge Cd content	0.75	µg/kg d
4	Sludge Cd content	0.80	µg/kg d
5	Sludge Cd content	0.75	µg/kg d
6	Sludge Cd content	0.74	µg/kg d
7	Sludge Cr content	15.05	µg/kg d
9	Sludge Cr content	13.08	µg/kg d
8	Sludge Cr content	16.70	µg/kg d
1	Sludge Cr content	9.76	µg/kg d
10	Sludge Cr content	10.69	µg/kg d

**CCCSO Information Collection Request Source Test for EPA**

**2/16/2010**

11	Sludge Cr content	10.05	µg/kg d
12	Sludge Cr content	11.65	µg/kg d
13	Sludge Cr content	15.27	µg/kg d
14	Sludge Cr content	11.69	µg/kg d
15	Sludge Cr content	14.91	µg/kg d
16	Sludge Cr content	11.67	µg/kg d
17	Sludge Cr content	12.02	µg/kg d
18	Sludge Cr content	13.25	µg/kg d
19	Sludge Cr content	14.54	µg/kg d
2	Sludge Cr content	11.64	µg/kg d
20	Sludge Cr content	11.69	µg/kg d
21	Sludge Cr content	14.91	µg/kg d
22	Sludge Cr content	11.67	µg/kg d
23	Sludge Cr content	12.56	µg/kg d
24	Sludge Cr content	13.25	µg/kg d
3	Sludge Cr content	11.96	µg/kg d
4	Sludge Cr content	13.18	µg/kg d
5	Sludge Cr content	13.13	µg/kg d
6	Sludge Cr content	14.98	µg/kg d
7	Sludge Co content	7.97	µg/kg d
9	Sludge Co content	9.78	µg/kg d
8	Sludge Co content	8.30	µg/kg d
1	Sludge Co content	8.73	µg/kg d
10	Sludge Co content	9.25	µg/kg d
11	Sludge Co content	8.15	µg/kg d
12	Sludge Co content	7.94	µg/kg d
13	Sludge Co content	8.45	µg/kg d
14	Sludge Co content	8.77	µg/kg d
15	Sludge Co content	8.94	µg/kg d
16	Sludge Co content	8.20	µg/kg d
17	Sludge Co content	8.95	µg/kg d
18	Sludge Co content	8.95	µg/kg d
19	Sludge Co content	8.57	µg/kg d
2	Sludge Co content	8.74	µg/kg d
20	Sludge Co content	8.77	µg/kg d
21	Sludge Co content	8.94	µg/kg d
22	Sludge Co content	8.20	µg/kg d
23	Sludge Co content	8.98	µg/kg d
24	Sludge Co content	8.95	µg/kg d
3	Sludge Co content	8.34	µg/kg d
4	Sludge Co content	9.14	µg/kg d
5	Sludge Co content	8.72	µg/kg d
6	Sludge Co content	8.68	µg/kg d



**CCCSO Information Collection Request Source Test for EPA**

**2/16/2010**

7	Sludge Pb content	9.35	µg/kg d
9	Sludge Pb content	9.32	µg/kg d
8	Sludge Pb content	9.48	µg/kg d
1	Sludge Pb content	9.98	µg/kg d
10	Sludge Pb content	9.08	µg/kg d
11	Sludge Pb content	9.23	µg/kg d
12	Sludge Pb content	10.80	µg/kg d
13	Sludge Pb content	9.39	µg/kg d
14	Sludge Pb content	9.67	µg/kg d
15	Sludge Pb content	10.89	µg/kg d
16	Sludge Pb content	10.11	µg/kg d
17	Sludge Pb content	10.49	µg/kg d
18	Sludge Pb content	9.35	µg/kg d
19	Sludge Pb content	9.37	µg/kg d
2	Sludge Pb content	10.36	µg/kg d
20	Sludge Pb content	9.67	µg/kg d
21	Sludge Pb content	10.89	µg/kg d
22	Sludge Pb content	10.11	µg/kg d
23	Sludge Pb content	10.36	µg/kg d
24	Sludge Pb content	9.35	µg/kg d
3	Sludge Pb content	11.32	µg/kg d
4	Sludge Pb content	10.36	µg/kg d
5	Sludge Pb content	9.11	µg/kg d
6	Sludge Pb content	9.25	µg/kg d
7	Sludge Mn content	126.70	µg/kg d
9	Sludge Mn content	139.52	µg/kg d
8	Sludge Mn content	131.96	µg/kg d
1	Sludge Mn content	125.79	µg/kg d
10	Sludge Mn content	126.28	µg/kg d
11	Sludge Mn content	125.67	µg/kg d
12	Sludge Mn content	135.93	µg/kg d
13	Sludge Mn content	134.94	µg/kg d
14	Sludge Mn content	133.59	µg/kg d
15	Sludge Mn content	128.37	µg/kg d
16	Sludge Mn content	124.90	µg/kg d
17	Sludge Mn content	126.53	µg/kg d
18	Sludge Mn content	133.56	µg/kg d
19	Sludge Mn content	132.53	µg/kg d
2	Sludge Mn content	130.95	µg/kg d
20	Sludge Mn content	133.59	µg/kg d
21	Sludge Mn content	128.37	µg/kg d
22	Sludge Mn content	124.90	µg/kg d
23	Sludge Mn content	125.94	µg/kg d

**CCCSO Information Collection Request Source Test for EPA**

**2/16/2010**

24	Sludge Mn content	133.56	µg/kg d
3	Sludge Mn content	123.80	µg/kg d
4	Sludge Mn content	122.60	µg/kg d
5	Sludge Mn content	143.29	µg/kg d
6	Sludge Mn content	143.11	µg/kg d
7	Sludge Hg content	0.74	µg/kg d
9	Sludge Hg content	0.76	µg/kg d
8	Sludge Hg content	0.74	µg/kg d
1	Sludge Hg content	0.75	µg/kg d
10	Sludge Hg content	0.57	µg/kg d
11	Sludge Hg content	0.69	µg/kg d
12	Sludge Hg content	0.66	µg/kg d
13	Sludge Hg content	0.73	µg/kg d
14	Sludge Hg content	0.70	µg/kg d
15	Sludge Hg content	0.85	µg/kg d
16	Sludge Hg content	1.16	µg/kg d
17	Sludge Hg content	1.03	µg/kg d
18	Sludge Hg content	0.81	µg/kg d
19	Sludge Hg content	0.78	µg/kg d
2	Sludge Hg content	1.65	µg/kg d
20	Sludge Hg content	0.70	µg/kg d
21	Sludge Hg content	0.85	µg/kg d
22	Sludge Hg content	1.16	µg/kg d
23	Sludge Hg content	1.07	µg/kg d
24	Sludge Hg content	0.81	µg/kg d
3	Sludge Hg content	1.71	µg/kg d
4	Sludge Hg content	0.69	µg/kg d
5	Sludge Hg content	0.60	µg/kg d
6	Sludge Hg content	0.74	µg/kg d
7	Sludge Ni content	10.74	µg/kg d
9	Sludge Ni content	10.72	µg/kg d
8	Sludge Ni content	10.89	µg/kg d
1	Sludge Ni content	11.47	µg/kg d
10	Sludge Ni content	10.47	µg/kg d
11	Sludge Ni content	10.63	µg/kg d
12	Sludge Ni content	12.41	µg/kg d
13	Sludge Ni content	10.77	µg/kg d
14	Sludge Ni content	11.13	µg/kg d
15	Sludge Ni content	11.51	µg/kg d
16	Sludge Ni content	10.72	µg/kg d
17	Sludge Ni content	9.37	µg/kg d
18	Sludge Ni content	10.73	µg/kg d
19	Sludge Ni content	10.75	µg/kg d

# CCCSO Information Collection Request Source Test for EPA

2/16/2010

2	Sludge Ni content	9.79	µg/kg d
20	Sludge Ni content	11.13	µg/kg d
21	Sludge Ni content	11.51	µg/kg d
22	Sludge Ni content	10.72	µg/kg d
23	Sludge Ni content	8.69	µg/kg d
24	Sludge Ni content	10.73	µg/kg d
3	Sludge Ni content	9.99	µg/kg d
4	Sludge Ni content	7.95	µg/kg d
5	Sludge Ni content	10.40	µg/kg d
6	Sludge Ni content	10.63	µg/kg d
7	Sludge Se content	3.43	µg/kg d
9	Sludge Se content	2.12	µg/kg d
8	Sludge Se content	3.22	µg/kg d
1	Sludge Se content	1.71	µg/kg d
10	Sludge Se content	2.23	µg/kg d
11	Sludge Se content	2.03	µg/kg d
12	Sludge Se content	1.91	µg/kg d
13	Sludge Se content	3.16	µg/kg d
14	Sludge Se content	2.01	µg/kg d
15	Sludge Se content	4.13	µg/kg d
16	Sludge Se content	1.82	µg/kg d
17	Sludge Se content	2.24	µg/kg d
18	Sludge Se content	3.10	µg/kg d
19	Sludge Se content	3.20	µg/kg d
2	Sludge Se content	2.18	µg/kg d
20	Sludge Se content	2.01	µg/kg d
21	Sludge Se content	4.13	µg/kg d
22	Sludge Se content	1.82	µg/kg d
23	Sludge Se content	2.30	µg/kg d
24	Sludge Se content	3.10	µg/kg d
3	Sludge Se content	2.47	µg/kg d
4	Sludge Se content	2.38	µg/kg d
5	Sludge Se content	3.02	µg/kg d
6	Sludge Se content	3.47	µg/kg d
7	Sludge P content	19,532	µg/kg d
9	Sludge P content	21,883	µg/kg d
8	Sludge P content	20,389	µg/kg d
1	Sludge P content	17,198	µg/kg d
10	Sludge P content	22,009	µg/kg d
11	Sludge P content	20,974	µg/kg d
12	Sludge P content	20,719	µg/kg d
13	Sludge P content	19,917	µg/kg d
14	Sludge P content	21,241	µg/kg d

# CCCSO Information Collection Request Source Test for EPA

2/16/2010

15	Sludge P content	22,193	µg/kg d
16	Sludge P content	17,444	µg/kg d
17	Sludge P content	16,063	µg/kg d
18	Sludge P content	19,547	µg/kg d
19	Sludge P content	19,772	µg/kg d
2	Sludge P content	16,267	µg/kg d
20	Sludge P content	21,241	µg/kg d
21	Sludge P content	22,193	µg/kg d
22	Sludge P content	17,444	µg/kg d
23	Sludge P content	15,645	µg/kg d
24	Sludge P content	19,547	µg/kg d
3	Sludge P content	17,179	µg/kg d
4	Sludge P content	15,230	µg/kg d
5	Sludge P content	19,421	µg/kg d
7	Sludge C content	42.04	% dry c
9	Sludge C content	42.31	% dry c
8	Sludge C content	42.09	% dry c
1	Sludge C content	41.99	% dry c
10	Sludge C content	42.05	% dry c
11	Sludge C content	42.55	% dry c
12	Sludge C content	42.55	% dry c
13	Sludge C content	41.81	% dry c
14	Sludge C content	42.45	% dry c
15	Sludge C content	41.82	% dry c
16	Sludge C content	42.09	% dry c
17	Sludge C content	42.35	% dry c
18	Sludge C content	41.64	% dry c
19	Sludge C content	41.87	% dry c
2	Sludge C content	42.48	% dry c
20	Sludge C content	42.45	% dry c
21	Sludge C content	41.82	% dry c
22	Sludge C content	42.09	% dry c
23	Sludge C content	42.59	% dry c
24	Sludge C content	41.64	% dry c
3	Sludge C content	42.94	% dry c
4	Sludge C content	42.67	% dry c
5	Sludge C content	41.51	% dry c
6	Sludge C content	41.66	% dry c
7	Sludge H content	6.23	% dry c
9	Sludge H content	6.30	% dry c
8	Sludge H content	6.22	% dry c
1	Sludge H content	6.2	% dry c
10	Sludge H content	6.26	% dry c

**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

11	Sludge H content	6.37	% dry c
12	Sludge H content	6.36	% dry c
13	Sludge H content	6.20	% dry c
14	Sludge H content	6.34	% dry c
15	Sludge H content	6.27	% dry c
16	Sludge H content	6.24	% dry c
17	Sludge H content	6.26	% dry c
18	Sludge H content	6.20	% dry c
19	Sludge H content	6.21	% dry c
2	Sludge H content	6.27	% dry c
20	Sludge H content	6.34	% dry c
21	Sludge H content	6.27	% dry c
22	Sludge H content	6.24	% dry c
23	Sludge H content	6.29	% dry c
24	Sludge H content	6.20	% dry c
3	Sludge H content	6.35	% dry c
4	Sludge H content	6.30	% dry c
5	Sludge H content	6.21	% dry c
6	Sludge H content	6.18	% dry c
7	Sludge N content	4.60	% dry c
9	Sludge N content	4.47	% dry c
8	Sludge N content	4.57	% dry c
1	Sludge N content	4.47	% dry c
10	Sludge N content	4.38	% dry c
11	Sludge N content	4.51	% dry c
12	Sludge N content	4.44	% dry c
13	Sludge N content	4.58	% dry c
14	Sludge N content	4.47	% dry c
15	Sludge N content	4.28	% dry c
16	Sludge N content	4.52	% dry c
17	Sludge N content	4.52	% dry c
18	Sludge N content	4.57	% dry c
19	Sludge N content	4.58	% dry c
2	Sludge N content	4.58	% dry c
20	Sludge N content	4.47	% dry c
21	Sludge N content	4.28	% dry c
22	Sludge N content	4.52	% dry c
23	Sludge N content	4.55	% dry c
24	Sludge N content	4.57	% dry c
3	Sludge N content	4.62	% dry c
4	Sludge N content	4.54	% dry c
5	Sludge N content	4.62	% dry c
6	Sludge N content	4.54	% dry c

**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

7	Sludge S content	0.66	% dry c
9	Sludge S content	0.64	% dry c
8	Sludge S content	0.66	% dry c
1	Sludge S content	0.65	% dry c
10	Sludge S content	0.66	% dry c
11	Sludge S content	0.66	% dry c
12	Sludge S content	0.67	% dry c
13	Sludge S content	0.66	% dry c
14	Sludge S content	0.65	% dry c
15	Sludge S content	0.60	% dry c
16	Sludge S content	0.63	% dry c
17	Sludge S content	0.67	% dry c
18	Sludge S content	0.66	% dry c
19	Sludge S content	0.66	% dry c
2	Sludge S content	0.65	% dry c
20	Sludge S content	0.65	% dry c
21	Sludge S content	0.60	% dry c
22	Sludge S content	0.63	% dry c
23	Sludge S content	0.67	% dry c
24	Sludge S content	0.66	% dry c
3	Sludge S content	0.71	% dry c
4	Sludge S content	0.69	% dry c
5	Sludge S content	0.68	% dry c
6	Sludge S content	0.64	% dry c
7	Sludge Ash Content	3.89	% dry c
9	Sludge Ash Content	3.65	% dry c
8	Sludge Ash Content	3.77	% dry c
1	Sludge Ash Content	3.83	% dry c
10	Sludge Ash Content	3.68	% dry c
11	Sludge Ash Content	3.66	% dry c
12	Sludge Ash Content	3.48	% dry c
13	Sludge Ash Content	3.77	% dry c
14	Sludge Ash Content	3.61	% dry c
15	Sludge Ash Content	3.99	% dry c
16	Sludge Ash Content	3.84	% dry c
17	Sludge Ash Content	3.77	% dry c
18	Sludge Ash Content	3.80	% dry c
19	Sludge Ash Content	3.79	% dry c
2	Sludge Ash Content	3.85	% dry c
20	Sludge Ash Content	3.61	% dry c
21	Sludge Ash Content	3.99	% dry c
22	Sludge Ash Content	3.84	% dry c
23	Sludge Ash Content	3.75	% dry c

**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

24	Sludge Ash Content	3.80	% dry c
3	Sludge Ash Content	3.91	% dry c
4	Sludge Ash Content	3.68	% dry c
5	Sludge Ash Content	3.84	% dry c
6	Sludge Ash Content	3.71	% dry c
7	Sludge O content	42.59	% dry c
9	Sludge O content	42.63	% dry c
8	Sludge O content	42.68	% dry c
1	Sludge O content	42.86	% dry c
10	Sludge O content	42.98	% dry c
11	Sludge O content	42.27	% dry c
12	Sludge O content	42.50	% dry c
13	Sludge O content	42.98	% dry c
14	Sludge O content	42.48	% dry c
15	Sludge O content	43.04	% dry c
16	Sludge O content	42.68	% dry c
17	Sludge O content	42.44	% dry c
18	Sludge O content	43.13	% dry c
19	Sludge O content	42.89	% dry c
2	Sludge O content	42.19	% dry c
20	Sludge O content	42.48	% dry c
21	Sludge O content	43.04	% dry c
22	Sludge O content	42.68	% dry c
23	Sludge O content	42.14	% dry c
24	Sludge O content	43.13	% dry c
3	Sludge O content	41.48	% dry c
4	Sludge O content	42.11	% dry c
5	Sludge O content	43.15	% dry c
6	Sludge O content	43.27	% dry c
7	Sludge Heating Value	8150	lb dry c
9	Sludge Heating Value	8162	lb dry c
8	Sludge Heating Value	8015	lb dry c
1	Sludge Heating Value	8379	lb dry c
10	Sludge Heating Value	7796	lb dry c
11	Sludge Heating Value	82.19	lb dry c
12	Sludge Heating Value	7004	lb dry c
13	Sludge Heating Value	7733	lb dry c
14	Sludge Heating Value	7760	lb dry c
15	Sludge Heating Value	7608	lb dry c
16	Sludge Heating Value	9172	lb dry c
17	Sludge Heating Value	8695	lb dry c
18	Sludge Heating Value	7518	lb dry c
19	Sludge Heating Value	7690	lb dry c

**CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

2	Sludge Heating Value	8109	lb dry
20	Sludge Heating Value	7760	lb dry
21	Sludge Heating Value	7608	lb dry
22	Sludge Heating Value	9172	lb dry
23	Sludge Heating Value	8634	lb dry
24	Sludge Heating Value	7518	lb dry
3	Sludge Heating Value	8530	lb dry
4	Sludge Heating Value	8985	lb dry
5	Sludge Heating Value	7496	lb dry
6	Sludge Heating Value	7571	lb dry
6	Sludge P content	19,233	ug/kg d



# CCCSO Information Collection Request Source Test for EPA

2/16/2010

## Stack Exit - Method 10

Run Number	1.1	1.2	1.3	
Test Date	12/15/2009	12/15/2009	12/15/2009	
Run Start Time	11:33:00 AM	1:14:00 PM	2:28:00 PM	
Run Finish Time	1:00:00 PM	2:14:00 PM	3:28:00 PM	
Carbon Dioxide, %	6.999	6.234	6.152	6.462
Oxygen, %	11.768	12.622	12.881	12.424
Fuel Factor	1.3	1.33	1.3	
Dry Volumetric Flow Rate, dry scfm	24528	23157	23158	23,614.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.75	2.31	2.31	2.457
Analyzer Make	Thermo			#Error
Analyzer Model	only			#Error
Analyzer Serial Number	123			123.000
Operating Range	951.21	951.21	951.21	951.210
Operating Units	ppm	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	13	13	13	13.000
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.36	1.3	1.96	1.207
Calibration Pre Zero Cylinder Bias	0	0.02	0.09	0.037
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC74777 - CO	CC74777 - CO	CC74777 - CO	
Calibration Pre High Cylinder Instrument Response	479.58	479.06	477.92	478.853
Calibration Pre High Cylinder Bias	0	-0.32	-0.44	-0.253
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	1.3	1.96	1.18	1.480
Calibration Post Zero Cylinder Bias	0	0.09	0.01	0.033
Calibration Post Zero Cylinder Drift	0	0.07	0.08	0.050
Calibration Post High Cylinder ID	CC74777 - CO	CC74777 - CO	CC74777 - CO	
Calibration Post High Cylinder Instrument Response	479.06	477.92	476.46	477.813
Calibration Post High Cylinder Bias	-0.32	-0.44	-0.6	-0.453
Calibration Post High Cylinder Drift	0.32	0.12	0.16	0.200
Cavg	548.53	552.93	508.56	536.673
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	548.2838	553.7741	510.5929	537.550
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units	ppmvw			

# CCCSO Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 10 3

Run Number	1.4	2.1	2.2	
Test Date	12/15/2009	12/16/2009	12/16/2009	
Run Start Time	3:40:00 PM	10:25:00 AM	11:45:00 AM	
Run Finish Time	4:40:00 PM	11:25:00 AM	12:45:00 PM	
Carbon Dioxide, %	6.71	6.106	5.515	6.110
Oxygen, %	12.16	12.952	13.579	12.897
Fuel Factor	1.3	1.3	1.33	
Dry Volumetric Flow Rate, dry scfm	23135	23810	25104	24,016.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.67	2.33	2.437
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	951.21	946.94	946.94	948.363
Operating Units	ppm	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	13	14	14	13.667
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	1.18	-0.15	-0.03	0.333
Calibration Pre Zero Cylinder Bias	0.01	-0.09	-0.08	-0.053
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC74777 - CO	CC74777 - CO	CC74777 - CO	
Calibration Pre High Cylinder Instrument Response	476.46	477.46	477.69	477.203
Calibration Pre High Cylinder Bias	-0.6	-0.39	-0.36	-0.450
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.27	-0.03	-0.12	0.040
Calibration Post Zero Cylinder Bias	-0.09	-0.08	-0.09	-0.087
Calibration Post Zero Cylinder Drift	0.1	0.01	0.01	0.040
Calibration Post High Cylinder ID	CC74777 - CO	CC74777 - CO	CC74777 - CO	
Calibration Post High Cylinder Instrument Response	478.87	477.69	474.56	477.040
Calibration Post High Cylinder Bias	-0.34	-0.36	-0.69	-0.463
Calibration Post High Cylinder Drift	0.26	0.03	0.33	0.207
Cavg	596.23	378.92	588.36	521.170
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	598.0771	380.0693	591.8949	523.347
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# **CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

Stack Exit - Method 10 3 6

Run Number	2.3	2.4	3.1	
Test Date	12/16/2009	12/16/2009	12/17/2009	
Run Start Time	1:23:00 PM	2:35:00 PM	10:56:00 AM	
Run Finish Time	2:23:00 PM	3:35:00 PM	11:15:00 AM	
Carbon Dioxide, %	6.198	6.341	5.574	6.038
Oxygen, %	12.744	12.574	13.65	12.989
Fuel Factor	1.32	1.31	1.3	
Dry Volumetric Flow Rate, dry scfm	25072	25065	22424	24,187.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.33	2.33	2.31	2.323
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	946.94	946.94	947.37	947.083
Operating Units	ppm	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	14	14	15	14.333
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	-0.12	-0.14	0.03	-0.077
Calibration Pre Zero Cylinder Bias	-0.09	-0.09	-0.05	-0.077
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC74777 - CO	CC74777 - CO	CC74777 - CO	
Calibration Pre High Cylinder Instrument Response	474.56	476.33	480.62	477.170
Calibration Pre High Cylinder Bias	-0.69	-0.51	-0.07	-0.423
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	-0.14	-0.13	0.04	-0.077
Calibration Post Zero Cylinder Bias	-0.09	-0.09	-0.05	-0.077
Calibration Post Zero Cylinder Drift	0	0	0	0.000
Calibration Post High Cylinder ID	CC74777 - CO	CC74777 - CO	CC74777 - CO	
Calibration Post High Cylinder Instrument Response	476.33	461.18	478.18	471.897
Calibration Post High Cylinder Bias	-0.51	-2.11	-0.33	-0.983
Calibration Post High Cylinder Drift	0.18	1.6	0.26	0.680
Cavg	573.81	604.15	704.56	627.507
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	578.0734	617.3143	703.9886	633.125
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 10 3 6 9

Run Number	3.2	3.3	3.4	
Test Date	12/17/2009	12/17/2009	12/17/2009	
Run Start Time	12:15:00 PM	1:47:00 PM	3:12:00 PM	
Run Finish Time	1:15:00 PM	2:47:00 PM	4:12:00 PM	
Carbon Dioxide, %	5.62	5.477	5.485	5.527
Oxygen, %	13.575	13.749	13.682	13.669
Fuel Factor	1.3	1.31	1.32	
Dry Volumetric Flow Rate, dry scfm	22423	22429	22429	22,427.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	0	5,806.667
Moisture, %	2.31	2.31	2.31	2.310
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	947.37	947.37	947.37	947.370
Operating Units	ppm	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	15	15	15	15.000
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.04	0.05	0.04	0.043
Calibration Pre Zero Cylinder Bias	-0.05	-0.05	-0.05	-0.050
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC74777 - CO	CC74777 - CO	CC74777 - CO	
Calibration Pre High Cylinder Instrument Response	478.18	477.92	477.28	477.793
Calibration Pre High Cylinder Bias	-0.33	-0.36	-0.43	-0.373
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.05	0.04	0.06	0.050
Calibration Post Zero Cylinder Bias	-0.05	-0.05	-0.05	-0.050
Calibration Post Zero Cylinder Drift	0	0	0	0.000
Calibration Post High Cylinder ID	CC74777 - CO	CC74777 - CO	CC74777 - CO	
Calibration Post High Cylinder Instrument Response	477.92	477.28	477.61	477.603
Calibration Post High Cylinder Bias	-0.36	-0.43	-0.39	-0.393
Calibration Post High Cylinder Drift	0.03	0.07	0.04	0.047
Cavg	637.83	654.54	650.69	647.687
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	639.1126	656.4754	652.8274	649.472
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural		
Fw	10610	10610	0	7,073.333
Fc	1040	1040	0	693.333
Cgasw	0	0	0	0.000
Cgasw Units				

# **CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

## Stack Exit - Method 23

Run Number	1	2	3	
Test Date	12/16/2009	12/17/2009	12/18/2009	
Run Start Time	10:53:00 AM	10:00:00 AM	9:16:00 AM	
Run Finish Time	5:01:00 PM	4:06:00 PM	3:23:00 PM	
Net Traversing Points	20	21	21	
Net Run Time, minutes	360	360	360	
Nozzle Diameter, inches	0.215	0.215	0.215	0.215
Pitot Tube Coefficient	0.8578	0.8578	0.8578	0.858
Dry Gas Meter Calibration Factor	0.996	0.996	0.996	0.996
Barometric Pressure, inches of Mercury	30.15	30.25	30.2	30.200
Average Orifice Meter Differential, inches H2O	1.21	1.01	0.96	1.060
Dry Gas Meter Volume Sampled, cubic feet	210.904	196.283	189.968	199.052
Average Dry Gas Meter Temperature, °F	60.20	67.30	59.05	62.183
Dry Gas Meter Volume Sampled, dscf	215.483	198.402	194.726	202.870
Total Moisture Liquid collected, g	123	81.8	83.5	96.100
Volume of Water Vapor, standard cubic feet	5.79	3.85	3.93	4.523
Moisture Content of Stack Gas, %	2.62	1.90	1.98	2.167
Moisture Saturation at Stack Gas Temperature, %	16.62	12.69	11.98	13.763
Dry Mole Fraction	0.9738	0.981	0.9802	0.978
Carbon Dioxide, %	6	5.5	5.8	5.767
Oxygen, %	13	13.7	13.4	13.367
Carbon Monoxide & Nitrogen, %	81	80.8	80.8	80.867
Fuel Factor	1.32	1.31	1.29	
Dry Molecular Weight, lb/lb-Mole	29.48	29.43	29.46	29.457
Wet Molecular weight, lb/lb-Mole	29.18	29.21	29.23	29.207
Flue Gas Static Pressure, inches of H2O	-0.2	-0.2	-0.2	-0.200
Absolute Flue Gas Pressure, inches of Mercury	30.14	30.24	30.19	30.190
Average Stack Gas Temperature, °F	133.90	123.95	121.80	126.550
Average Velocity Head, inches of H2O	0.598	0.500	0.470	0.523
Average Stack Gas Velocity, feet/second	46.60	42.16	40.82	43.193
Stack Cross-Sectional Area, square feet	9.621	9.621	9.621	9.621
Dry Volumetric Flow Rate, dry scfm	23,460.1	21,818.2	21,150.5	22,142.933
Actual Wet Volumetric Flue Gas Flow Rate, acfm	26,900.3	24,337.3	23,563.8	24,933.800
Percent Isokinetic of Sampling Rate, %	97.4	96.4	97.6	97.133
Percent Excess Air, %	155.1	179.5	169.0	167.867
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Round Duct Diameter, inches	42	42	42	
Rectangular Duct Width, inches	0	0	0	
Rectangular Duct Length, inches	324	324	324	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

# **CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

## **Stack Exit - Method 26A**

Run Number	1	2	3	
Test Date	12/15/2009	12/15/2009	12/16/2009	
Run Start Time	8:14:00 AM	12:50:00 PM	7:57:00 AM	
Run Finish Time	12:17:00 PM	4:52:00 PM	12:06:00 PM	
Net Traversing Points	20	20	20	
Net Run Time, minutes	240	240	240	
Nozzle Diameter, inches	0.2	0.2	0.2	0.200
Pitot Tube Coefficient	0.8368	0.8368	0.8365	0.837
Dry Gas Meter Calibration Factor	0.972	0.972	0.972	0.972
Barometric Pressure, inches of Mercury	30.1	30.1	30.15	30.117
Average Orifice Meter Differential, inches H2O	1.04	0.91	0.98	0.977
Dry Gas Meter Volume Sampled, cubic feet	132.121	127.072	127.915	129.036
Average Dry Gas Meter Temperature, °F	56.45	60.75	52.18	56.460
Dry Gas Meter Volume Sampled, dscf	132.419	126.267	129.468	129.385
Total Moisture Liquid collected, g	78.9	63.1	75.1	72.367
Volume of Water Vapor, standard cubic feet	3.71	2.97	3.53	3.403
Moisture Content of Stack Gas, %	2.73	2.30	2.65	2.560
Moisture Saturation at Stack Gas Temperature, %	14.64	14.76	14.02	14.473
Dry Mole Fraction	0.9727	0.977	0.9735	0.974
Carbon Dioxide, %	7	6.3	6.1	6.467
Oxygen, %	11.8	12.6	12.9	12.433
Carbon Monoxide & Nitrogen, %	81.2	81.1	81	81.100
Fuel Factor	1.30	1.32	1.31	
Dry Molecular Weight, lb/lb-Mole	29.59	29.51	29.49	29.530
Wet Molecular weight, lb/lb-Mole	29.27	29.25	29.19	29.237
Flue Gas Static Pressure, inches of H2O	-0.19	-0.21	-0.19	-0.197
Absolute Flue Gas Pressure, inches of Mercury	30.09	30.08	30.14	30.103
Average Stack Gas Temperature, °F	129.05	129.35	127.50	128.633
Average Velocity Head, inches of H2O	0.689	0.608	0.643	0.647
Average Stack Gas Velocity, feet/second	48.56	45.65	46.86	47.023
Stack Cross-Sectional Area, square feet	9.621	9.621	9.621	9.621
Dry Volumetric Flow Rate, dry scfm	24,579.4	23,189.1	23,840.6	23,869.700
Actual Wet Volumetric Flue Gas Flow Rate, acfm	28,031.7	26,351.9	27,050.4	27,144.667
Percent Isokinetic of Sampling Rate, %	99.0	100.1	99.8	99.633
Percent Excess Air, %	122.4	143.0	152.1	139.167
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Round Duct Diameter, inches	42	42	42	
Rectangular Duct Width, inches	0	0	0	
Rectangular Duct Length, inches	324	324	324	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

# **CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

## Stack Exit - Method 29

Run Number	1	2	3	
Test Date	12/16/2009	12/17/2009	12/18/2009	
Run Start Time	10:52:00 AM	9:59:00 AM	9:17:00 AM	
Run Finish Time	5:01:00 PM	4:06:00 PM	3:22:00 PM	
Net Traversing Points	20	20	20	
Net Run Time, minutes	360	360	360	
Nozzle Diameter, inches	0.21	0.21	0.21	0.210
Pitot Tube Coefficient	0.8726	0.8726	0.8726	0.873
Dry Gas Meter Calibration Factor	1.001	1.001	1.001	1.001
Barometric Pressure, inches of Mercury	30.15	30.25	30.2	30.200
Average Orifice Meter Differential, inches H2O	1.25	1.00	0.97	1.073
Dry Gas Meter Volume Sampled, cubic feet	216.049	189.587	186.363	197.333
Average Dry Gas Meter Temperature, °F	59.35	68.95	61.15	63.150
Dry Gas Meter Volume Sampled, dscf	222.233	191.991	191.221	201.815
Total Moisture Liquid collected, g	132.1	96.1	98.3	108.833
Volume of Water Vapor, standard cubic feet	6.22	4.52	4.63	5.123
Moisture Content of Stack Gas, %	2.72	2.30	2.36	2.460
Moisture Saturation at Stack Gas Temperature, %	17.84	14.13	15.72	15.897
Dry Mole Fraction	0.9728	0.977	0.9764	0.975
Carbon Dioxide, %	6	5.5	5.8	5.767
Oxygen, %	13	13.7	13.4	13.367
Carbon Monoxide & Nitrogen, %	81	80.8	80.8	80.867
Fuel Factor	1.32	1.31	1.29	
Dry Molecular Weight, lb/lb-Mole	29.48	29.43	29.46	29.457
Wet Molecular weight, lb/lb-Mole	29.17	29.17	29.19	29.177
Flue Gas Static Pressure, inches of H2O	-0.2	-0.23	-0.2	-0.210
Absolute Flue Gas Pressure, inches of Mercury	30.14	30.23	30.19	30.187
Average Stack Gas Temperature, °F	136.60	127.90	131.85	132.117
Average Velocity Head, inches of H2O	0.654	0.630	0.505	0.596
Average Stack Gas Velocity, feet/second	49.70	48.35	43.44	47.163
Stack Cross-Sectional Area, square feet	9.621	9.621	9.621	9.621
Dry Volumetric Flow Rate, dry scfm	24,881.9	24,744.0	22,040.1	23,888.667
Actual Wet Volumetric Flue Gas Flow Rate, acfm	28,689.8	27,910.5	25,076.2	27,225.500
Percent Isokinetic of Sampling Rate, %	99.2	86.2	96.4	93.933
Percent Excess Air, %	155.1	179.5	169.0	167.867
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Round Duct Diameter, inches	42	42	42	
Rectangular Duct Width, inches	0	0	0	
Rectangular Duct Length, inches	324	324	324	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000

# CCCSO Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 3A CO2

Run Number	1.1	1.2	1.3	
Test Date	12/15/2009	12/15/2009	12/15/2009	
Run Start Time	11:34:00 AM	1:14:00 PM	2:28:00 PM	
Run Finish Time	1:00:00 PM	2:14:00 PM	3:28:00 PM	
Carbon Dioxide, %	6.999	6.234	6.152	6.462
Oxygen, %	11.768	12.622	12.881	12.424
Fuel Factor	1.3	1.33	1.3	
Dry Volumetric Flow Rate, dry scfm	24528	23704	23158	23,796.667
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.75	2.31	2.31	2.457
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	8.19	8.19	8.19	8.190
Operating Units	%	%	%	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	4	4	4	4.000
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.03	0.05	0.06	0.047
Calibration Pre Zero Cylinder Bias	0.37	0.61	0.73	0.570
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC32885 - CO2	CC32885 - CO2	CC32885 - CO2	
Calibration Pre High Cylinder Instrument Response	4.03	4.03	4.04	4.033
Calibration Pre High Cylinder Bias	0	0	0.12	0.040
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.05	0.06	0.05	0.053
Calibration Post Zero Cylinder Bias	0.61	0.73	0.61	0.650
Calibration Post Zero Cylinder Drift	0.24	0.12	0.12	0.160
Calibration Post High Cylinder ID	CC32885 - CO2	CC32885 - CO2	CC32885 - CO2	
Calibration Post High Cylinder Instrument Response	4.03	4.04	4.02	4.030
Calibration Post High Cylinder Bias	0	0.12	-0.12	0.000
Calibration Post High Cylinder Drift	0	0.12	0.24	0.120
Cavg	7.02	6.35	6.17	6.513
Cavg Units	%vd	%vd	%vd	
Cgas	6.9975	6.3266	6.1535	6.493
Cgas Units	%vd	%vd	%vd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				



# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 3A CO2 3

Run Number	1.4	2.1	2.2	
Test Date	12/15/2009	12/16/2009	12/16/2009	
Run Start Time	3:40:00 PM	10:25:00 AM	11:45:00 AM	
Run Finish Time	4:40:00 PM	11:25:00 AM	12:45:00 PM	
Carbon Dioxide, %	6.71	6.106	5.515	6.110
Oxygen, %	12.16	12.952	13.579	12.897
Fuel Factor	1.3	1.3	1.33	
Dry Volumetric Flow Rate, dry scfm	23135	2381024763	25104	793,691,000.667
F-Factor, dscfm/MMBtu @ %O2	8710	0	8710	5,806.667
Moisture, %	2.31	2.67	2.33	2.437
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	8.19	8.19	8.19	8.190
Operating Units	%	%	%vd	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	4	5	5	4.667
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.05	0.1	0.1	0.083
Calibration Pre Zero Cylinder Bias	0.61	0.24	0.24	0.363
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC32885 - CO2	CC32885 - CO2	CC32885 - CO2	
Calibration Pre High Cylinder Instrument Response	4.02	4.04	3.99	4.017
Calibration Pre High Cylinder Bias	-0.12	-0.49	-1.1	-0.570
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.06	0.1	0.1	0.087
Calibration Post Zero Cylinder Bias	0.73	0.24	0.24	0.403
Calibration Post Zero Cylinder Drift	0.12	0	0	0.040
Calibration Post High Cylinder ID	CC32885 - CO2	CC32885 - CO2	CC32885 - CO2	
Calibration Post High Cylinder Instrument Response	4.05	3.99	4.01	4.017
Calibration Post High Cylinder Bias	0.24	-1.1	-0.85	-0.570
Calibration Post High Cylinder Drift	0.36	0.61	0.25	0.407
Cavg	6.74	6.08	13.51	8.777
Cavg Units	%vd	%vd	%vd	
Cgas	6.7186	6.1098	13.7538	8.861
Cgas Units	%vd	%vd	%vd	
Fuel Type	Gas - Natural		Gas - Natural	
Fw	10610	0	10610	7,073.333
Fc	1040	0	1040	693.333
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 3A CO2 3 6

Run Number	2.3	2.4	3.1	
Test Date	12/16/2009	12/16/2009	12/17/2009	
Run Start Time	1:23:00 PM	2:35:00 PM	10:56:00 AM	
Run Finish Time	2:23:00 PM	3:35:00 PM	11:56:00 AM	
Carbon Dioxide, %	6.198	6.341	5.574	6.038
Oxygen, %	12.744	12.574	13.65	12.989
Fuel Factor	1.32	1.31	1.3	
Dry Volumetric Flow Rate, dry scfm	25072	25065	22424	24,187.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.33	2.33	2.31	2.323
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	8.19	8.19	8.19	8.190
Operating Units	%vd	%vd	%vd	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	5	5	6	5.333
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.1	0.09	0	0.063
Calibration Pre Zero Cylinder Bias	0.24	0.12	0.24	0.200
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC32885 - CO2	CC32885 - CO2	CC32885 - CO2	
Calibration Pre High Cylinder Instrument Response	4.01	4	3.932	3.981
Calibration Pre High Cylinder Bias	-0.85	-0.98	-0.83	-0.887
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.09	0.1	0	0.063
Calibration Post Zero Cylinder Bias	0.12	0.24	0.24	0.200
Calibration Post Zero Cylinder Drift	0.12	0.12	0	0.080
Calibration Post High Cylinder ID	CC32885 - CO2	CC32885 - CO2	CC32885 - CO2	
Calibration Post High Cylinder Instrument Response	4	4	3.912	3.971
Calibration Post High Cylinder Bias	-0.98	-0.98	-1.07	-1.010
Calibration Post High Cylinder Drift	0.13	0	0.24	0.123
Cavg	12.67	12.51	5.51	10.230
Cavg Units	%vd	%vd	ppmvd	
Cgas	12.8645	12.717	5.6196	10.400
Cgas Units	%vd	%vd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSO Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 3A CO2 3 6 9

Run Number	3.2	3.3	3.4	
Test Date	12/17/2009	12/17/2009	12/17/2009	
Run Start Time	12:15:00 PM	1:47:00 PM	3:12:00 PM	
Run Finish Time	1:15:00 PM	2:47:00 PM	4:12:00 PM	
Carbon Dioxide, %	5.62	5.477	5.485	5.527
Oxygen, %	13.575	13.749	13.682	13.669
Fuel Factor	1.3	1.31	1.32	
Dry Volumetric Flow Rate, dry scfm	22423	22429	22429	22,427.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.31	2.31	2.310
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	8.19	8.19	8.19	8.190
Operating Units	%vd	%vd	%vd	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	6	6	6	6.000
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0	0	-0.075	-0.025
Calibration Pre Zero Cylinder Bias	0.24	0.24	-0.67	-0.063
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC32885 - CO2	CC32885 - CO2	CC32885 - CO2	
Calibration Pre High Cylinder Instrument Response	3.932	3.912	3.877	3.907
Calibration Pre High Cylinder Bias	-0.83	-1.07	-1.5	-1.133
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0	-0.075	-0.055	-0.043
Calibration Post Zero Cylinder Bias	0.24	-0.67	-0.43	-0.287
Calibration Post Zero Cylinder Drift	0	0.91	0.24	0.383
Calibration Post High Cylinder ID	CC32885 - CO2	CC32885 - CO2	CC32885 - CO2	
Calibration Post High Cylinder Instrument Response	3.912	3.877	3.902	3.897
Calibration Post High Cylinder Bias	-1.07	-1.5	-1.2	-1.257
Calibration Post High Cylinder Drift	0.24	0.43	0.3	0.323
Cavg	5.51	5.346	5.357	5.404
Cavg Units	%vd	%vd	%vd	
Cgas	5.6196	5.4766	5.4844	5.527
Cgas Units	%vd	%vd	%vd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 3A O2

Run Number	1.1	1.2	1.3	
Test Date	12/15/2009	12/15/2009	12/15/2009	
Run Start Time	11:33:00 AM	1:14:00 PM	2:28:00 PM	
Run Finish Time	1:00:00 PM	2:14:00 PM	3:28:00 PM	
Carbon Dioxide, %	6.999	6.234	6.152	6.462
Oxygen, %	11.768	12.622	12.881	12.424
Fuel Factor	1.3	1.33	1.3	
Dry Volumetric Flow Rate, dry scfm	24528	23157	23158	23,614.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.75	2.31	2.31	2.457
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	20	20	20	20.000
Operating Units	%vd	%vd	%vd	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	1	1	1	1.000
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.12	0.13	0.14	0.130
Calibration Pre Zero Cylinder Bias	0.1	0.01	0.2	0.103
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC32885 - O2	CC32885 - O2	CC32885 - O2	
Calibration Pre High Cylinder Instrument Response	11.49	11.47	11.47	11.477
Calibration Pre High Cylinder Bias	-0.4	-88.85	-0.5	-29.917
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.13	0.14	0.13	0.133
Calibration Post Zero Cylinder Bias	0.15	0.01	0.15	0.103
Calibration Post Zero Cylinder Drift	0.05	0	0.05	0.033
Calibration Post High Cylinder ID	CC32885 - O2	CC32885 - O2	CC32885 - O2	
Calibration Post High Cylinder Instrument Response	11.47	11.47	11.47	11.470
Calibration Post High Cylinder Bias	-42.28	-88.85	-0.5	-43.877
Calibration Post High Cylinder Drift	0.1000000000 00001	0	0	0.033
Cavg	11.74	12.57	12.83	12.380
Cavg Units	%vd	%vd	%vd	
Cgas	11.7633	12.616	12.9305	12.437
Cgas Units	%vd	%vd	%vd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 3A O2 3

Run Number	1.4	2.1	2.2	
Test Date	12/15/2009	12/16/2009	12/16/2009	
Run Start Time	3:40:00 PM	10:25:00 AM	11:45:00 AM	
Run Finish Time	4:40:00 PM	11:25:00 AM	12:45:00 PM	
Carbon Dioxide, %	6.71	6.106	5.515	6.110
Oxygen, %	12.16	12.952	13.579	12.897
Fuel Factor	1.3	1.3	1.33	
Dry Volumetric Flow Rate, dry scfm	23135	23810	25104	24,016.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.67	2.33	2.437
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	20	20	20	20.000
Operating Units	%vd	%vd	%vd	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	1	2	2	1.667
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.13	0.11	0.12	0.120
Calibration Pre Zero Cylinder Bias	0.15	0.1	0.15	0.133
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC32885 - O2	CC32885 - O2	CC32885 - O2	
Calibration Pre High Cylinder Instrument Response	11.47	11.46	11.47	11.467
Calibration Pre High Cylinder Bias	-0.5	-0.7	-0.65	-0.617
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.13	0.12	0.13	0.127
Calibration Post Zero Cylinder Bias	0.15	0.15	0.2	0.167
Calibration Post Zero Cylinder Drift	0	0.05	0.05	0.033
Calibration Post High Cylinder ID	CC32885 - O2	CC32885 - O2	CC32885 - O2	
Calibration Post High Cylinder Instrument Response	11.47	11.47	11.45	11.463
Calibration Post High Cylinder Bias	-0.5	-0.65	-0.75	-0.633
Calibration Post High Cylinder Drift	0	4.999999999 99999E-02	0.1	0.050
Cavg	12.12	12.9	13.51	12.843
Cavg Units	%vd	%vd	%vd	
Cgas	12.1592	12.954	13.5798	12.898
Cgas Units	%vd	%vd	%vd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 3A O2 3 6

Run Number	2.3	2.4	3.1	
Test Date	12/16/2009	12/16/2009	12/17/2009	
Run Start Time	1:23:00 PM	2:25:00 PM	10:56:00 AM	
Run Finish Time	2:23:00 PM	3:35:00 PM	11:56:00 AM	
Carbon Dioxide, %	6.198	6.341	5.574	6.038
Oxygen, %	12.744	12.574	13.65	12.989
Fuel Factor	1.32	1.31	1.3	
Dry Volumetric Flow Rate, dry scfm	25072	25065	22424	24,187.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.33	2.33	2.31	2.323
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	20	20	20	20.000
Operating Units	%vd	%vd	%vd	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	2	2	3	2.333
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.13	0.13	0.129	0.130
Calibration Pre Zero Cylinder Bias	0.2	0.2	0.15	0.183
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC32885 - O2	CC32885 - O2	CC32885 - O2	
Calibration Pre High Cylinder Instrument Response	11.45	11.45	11.43	11.443
Calibration Pre High Cylinder Bias	-0.75	-0.75	-0.7	-0.733
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.13	0.12	0.114	0.121
Calibration Post Zero Cylinder Bias	0.2	0.15	0.07	0.140
Calibration Post Zero Cylinder Drift	0	0.05	0.08	0.043
Calibration Post High Cylinder ID	CC32885 - O2	CC32885 - O2	CC32885 - O2	
Calibration Post High Cylinder Instrument Response	11.45	11.46	11.464	11.458
Calibration Post High Cylinder Bias	-0.75	-0.7	-0.53	-0.660
Calibration Post High Cylinder Drift	0	0.05	0.17	0.073
Cavg	12.67	12.51	13.567	12.916
Cavg Units	%vd	%vd	%vd	
Cgas	12.7394	12.5708	13.6527	12.988
Cgas Units	%vd	%vd	%vd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSO Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 3A O2 3 6 9

Run Number	3.2	3.3	3.4	
Test Date	12/17/2009	12/17/2009	12/17/2009	
Run Start Time	12:15:00 PM	1:47:00 PM	3:12:00 PM	
Run Finish Time	1:15:00 PM	2:47:00 PM	4:12:00 PM	
Carbon Dioxide, %	5.62	5.477	5.485	5.527
Oxygen, %	13.575	13.749	13.682	13.669
Fuel Factor	1.3	1.31	1.32	
Dry Volumetric Flow Rate, dry scfm	22423	22429	22429	22,427.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.31	2.31	2.310
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	20	20	20	20.000
Operating Units	%vd	%vd	%vd	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	3	3	3	3.000
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.114	0.118	0.109	0.114
Calibration Pre Zero Cylinder Bias	0.07	0.09	0.05	0.070
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC32885 - O2	CC32885 - O2	CC32885 - O2	
Calibration Pre High Cylinder Instrument Response	11.464	11.453	11.45	11.456
Calibration Pre High Cylinder Bias	-0.53	-0.59	-0.6	-0.573
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.118	0.109	0.114	0.114
Calibration Post Zero Cylinder Bias	0.09	0.05	0.07	0.070
Calibration Post Zero Cylinder Drift	0.02	0.04	0.02	0.027
Calibration Post High Cylinder ID	CC32885 - O2	CC32885 - O2	CC32885 - O2	
Calibration Post High Cylinder Instrument Response	11.453	11.45	11.454	11.452
Calibration Post High Cylinder Bias	-0.59	-0.6	-0.58	-0.590
Calibration Post High Cylinder Drift	5.999999999999999E-02	0.01	0.02	0.030
Cavg	13.505	13.668	13.604	13.592
Cavg Units	%vd	%vd	%vd	
Cgas	13.5749	13.7482	13.6823	13.668
Cgas Units	%vd	%vd	%vd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# **CCCSD Information Collection Request Source Test for EPA**

**2/16/2010**

## Stack Exit - Method 5

Run Number	1	2	3	
Test Date	12/15/2009	12/15/2009	12/16/2009	
Run Start Time	8:14:00 AM	12:50:00 PM	7:57:00 AM	
Run Finish Time	12:17:00 PM	4:52:00 PM	12:06:00 PM	
Net Traversing Points	20	20	20	
Net Run Time, minutes	240	240	240	
Nozzle Diameter, inches	0.2	0.2	0.2	0.200
Pitot Tube Coefficient	0.8368	0.8368	0.8368	0.837
Dry Gas Meter Calibration Factor	0.972	0.972	0.972	0.972
Barometric Pressure, inches of Mercury	30.1	30.1	30.15	30.117
Average Orifice Meter Differential, inches H2O	1.04	0.93	0.97	0.980
Dry Gas Meter Volume Sampled, cubic feet	132.071	127.072	127.915	129.019
Average Dry Gas Meter Temperature, °F	56.45	61.30	52.55	56.767
Dry Gas Meter Volume Sampled, dscf	132.369	126.140	129.371	129.293
Total Moisture Liquid collected, g	78.9	63.1	75.1	72.367
Volume of Water Vapor, standard cubic feet	3.71	2.97	3.53	3.403
Moisture Content of Stack Gas, %	2.73	2.30	2.66	2.563
Moisture Saturation at Stack Gas Temperature, %	14.64	14.84	14.02	14.500
Dry Mole Fraction	0.9727	0.977	0.9734	0.974
Carbon Dioxide, %	7	6.3	6.1	6.467
Oxygen, %	11.8	12.6	12.9	12.433
Carbon Monoxide & Nitrogen, %	81.2	81.1	81	81.100
Fuel Factor	1.30	1.32	1.31	
Dry Molecular Weight, lb/lb-Mole	29.59	29.51	29.49	29.530
Wet Molecular weight, lb/lb-Mole	29.27	29.25	29.18	29.233
Flue Gas Static Pressure, inches of H2O	-0.19	-0.21	-0.19	-0.197
Absolute Flue Gas Pressure, inches of Mercury	30.09	30.08	30.14	30.103
Average Stack Gas Temperature, °F	129.05	129.55	127.50	128.700
Average Velocity Head, inches of H2O	0.689	0.617	0.643	0.650
Average Stack Gas Velocity, feet/second	48.56	46.00	46.88	47.147
Stack Cross-Sectional Area, square feet	9.621	9.621	9.621	9.621
Dry Volumetric Flow Rate, dry scfm	24,579.4	23,359.0	23,848.3	23,928.900
Actual Wet Volumetric Flue Gas Flow Rate, acfm	28,031.7	26,554.0	27,061.9	27,215.867
Percent Isokinetic of Sampling Rate, %	99.0	99.2	99.7	99.300
Percent Excess Air, %	122.4	143.0	152.1	139.167
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Round Duct Diameter, inches	42	42	42	
Rectangular Duct Width, inches	0	0	0	
Rectangular Duct Length, inches	324	324	324	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000



# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 6C

Run Number	1.1	1.2	1.3	
Test Date	12/15/2009	12/15/2009	12/15/2009	
Run Start Time	11:33:00 AM	1:14:00 PM	2:28:00 PM	
Run Finish Time	1:00:00 PM	2:14:00 PM	3:28:00 PM	
Carbon Dioxide, %	6.999	6.234	6.152	6.462
Oxygen, %	11.768	12.622	12.881	12.424
Fuel Factor	1.3	1.33	1.3	
Dry Volumetric Flow Rate, dry scfm	24528	23157	23158	23,614.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.75	2.31	2.31	2.457
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	28.34	28.34	28.34	28.340
Operating Units	ppm	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	7	7	7	7.000
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	-0.05	0.55	1.02	0.507
Calibration Pre Zero Cylinder Bias	-0.39	1.73	3.39	1.577
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC151759 - SO2	CC151759 - SO2	CC151759 - SO2	
Calibration Pre High Cylinder Instrument Response	11.61	11.72	12.34	11.890
Calibration Pre High Cylinder Bias	-3.81	-3.42	-1.24	-2.823
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.55	1.02	0.78	0.783
Calibration Post Zero Cylinder Bias	1.73	3.39	2.54	2.553
Calibration Post Zero Cylinder Drift	2.12	1.66	0.85	1.543
Calibration Post High Cylinder ID	CC151759 - SO2	CC151759 - SO2	CC151759 - SO2	
Calibration Post High Cylinder Instrument Response	11.72	12.34	11.71	11.923
Calibration Post High Cylinder Bias	-3.42	-1.24	-3.46	-2.707
Calibration Post High Cylinder Drift	0.39	2.18	2.22	1.597
Cavg	1.74	2.11	2.22	2.023
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	1.6708	1.5082	1.5187	1.566
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSO Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 6C 3

Run Number	1.4	2.1	2.2	
Test Date	12/15/2009	12/16/2009	12/16/2009	
Run Start Time	3:40:00 PM	10:25:00 AM	11:45:00 AM	
Run Finish Time	4:40:00 PM	11:25:00 AM	12:45:00 PM	
Carbon Dioxide, %	6.71	6.106	5.515	6.110
Oxygen, %	12.16	12.952	13.579	12.897
Fuel Factor	1.3	1.3	1.33	
Dry Volumetric Flow Rate, dry scfm	23135	23810	25104	24,016.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.67	2.33	2.437
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	28.34	27.93	27.93	28.067
Operating Units	ppm	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	7	8	8	7.667
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.78	-0.2	0.11	0.230
Calibration Pre Zero Cylinder Bias	2.54	-0.64	0.47	0.790
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC151759 - SO2	CC151759 - SO2	CC151759 - SO2	
Calibration Pre High Cylinder Instrument Response	11.71	12.17	12.18	12.020
Calibration Pre High Cylinder Bias	-3.46	-2.15	-2.11	-2.573
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	1	0.11	-0.74	0.123
Calibration Post Zero Cylinder Bias	3.32	0.47	-2.58	0.403
Calibration Post Zero Cylinder Drift	0.78	1.11	3.05	1.647
Calibration Post High Cylinder ID	CC151759 - SO2	CC151759 - SO2	CC151759 - SO2	
Calibration Post High Cylinder Instrument Response	12.48	12.18	11.54	12.067
Calibration Post High Cylinder Bias	-0.74	-2.11	-4.4	-2.417
Calibration Post High Cylinder Drift	2.72	0.04	2.29	1.683
Cavg	2.71	1.49	1.56	1.920
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	2.0791	1.6079	1.9713	1.886
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 6C 3 6

Run Number	2.3	2.4	3.1	
Test Date	12/16/2009	12/16/2009	12/17/2009	
Run Start Time	1:23:00 PM	2:35:00 PM	10:56:00 AM	
Run Finish Time	2:23:00 PM	3:35:00 PM	11:56:00 AM	
Carbon Dioxide, %	6.198	6.341	5.574	6.038
Oxygen, %	12.744	12.574	13.65	12.989
Fuel Factor	1.32	1.31	1.3	
Dry Volumetric Flow Rate, dry scfm	25072	25065	22424	24,187.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.33	2.33	2.31	2.323
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	27.93	27.93	28.62	28.160
Operating Units	ppmvd	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	8	8	9	8.333
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	-0.74	-0.35	-0.182	-0.424
Calibration Pre Zero Cylinder Bias	-2.58	-1.18	1.18	-0.860
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC151759 - SO2	CC151759 - SO2	CC151759 - SO2	
Calibration Pre High Cylinder Instrument Response	11.54	12.29	12.582	12.137
Calibration Pre High Cylinder Bias	-4.4	-1.72	0.36	-1.920
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	-0.35	-0.9	0.575	-0.225
Calibration Post Zero Cylinder Bias	-1.18	-3.15	3.83	-0.167
Calibration Post Zero Cylinder Drift	1.4	1.97	2.65	2.007
Calibration Post High Cylinder ID	CC151759 - SO2	CC151759 - SO2	CC151759 - SO2	
Calibration Post High Cylinder Instrument Response	12.29	11.44	13.334	12.355
Calibration Post High Cylinder Bias	-1.72	-4.76	2.98	-1.167
Calibration Post High Cylinder Drift	2.68	3.04	2.62	2.780
Cavg	1.25	1.59	1.797	1.546
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	1.844	2.27	1.6053	1.906
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSO Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 6C 3 6 9

Run Number	3.2	3.3	3.4	
Test Date	12/17/2009	12/17/2009	12/17/2009	
Run Start Time	12:15:00 PM	1:47:00 PM	10:56:00 AM	
Run Finish Time	1:15:00 PM	2:47:00 PM	11:56:00 AM	
Carbon Dioxide, %	5.62	5.447	5.485	5.517
Oxygen, %	13.575	13.749	13.682	13.669
Fuel Factor	1.3	1.31	1.32	
Dry Volumetric Flow Rate, dry scfm	22423	22429	22429	22,427.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.31	2.31	2.310
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	28.62	28.62	28.62	28.620
Operating Units	ppm	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	9	9	9	9.000
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.575	0.148	0.001	0.241
Calibration Pre Zero Cylinder Bias	3.83	2.33	1.82	2.660
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	CC151759 - SO2	CC151759 - SO2	CC151759 - SO2	
Calibration Pre High Cylinder Instrument Response	13.334	13.077	12.857	13.089
Calibration Pre High Cylinder Bias	2.98	2.09	1.32	2.130
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.148	0.001	0.387	0.179
Calibration Post Zero Cylinder Bias	2.33	1.82	3.17	2.440
Calibration Post Zero Cylinder Drift	1.5	0.51	1.35	1.120
Calibration Post High Cylinder ID	CC151759 - SO2	CC151759 - SO2	CC151759 - SO2	
Calibration Post High Cylinder Instrument Response	13.077	12.857	12.499	12.811
Calibration Post High Cylinder Bias	2.09	1.32	0.07	1.160
Calibration Post High Cylinder Drift	0.89	0.77	1.25	0.970
Cavg	2.639	1.486	1.633	1.919
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	2.2697	1.4014	1.4754	1.716
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 7E

Run Number	1.1	1.2	1.3	
Test Date	12/15/2009	12/15/2009	12/15/2009	
Run Start Time	11:34:00 AM	1:14:00 PM	2:28:00 PM	
Run Finish Time	1:00:00 PM	2:14:00 PM	3:28:00 PM	
Carbon Dioxide, %	6.999	6.234	6.152	6.462
Oxygen, %	11.768	12.622	12.881	12.424
Fuel Factor	1.3	1.33	1.3	
Dry Volumetric Flow Rate, dry scfm	24528	23157	23158	23,614.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.75	2.31	2.31	2.457
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	114.75	114.75	114.75	114.750
Operating Units	ppm	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	10	10	10	10.000
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	2.15	2.38	2.49	2.340
Calibration Pre Zero Cylinder Bias	1.88	2.08	2.18	2.047
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	ALM019335 - Nox	ALM019335 - Nox	ALM019335 - Nox	
Calibration Pre High Cylinder Instrument Response	48.8	48.74	48.85	48.797
Calibration Pre High Cylinder Bias	-0.65	-0.71	-0.61	-0.657
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	2.38	2.49	2.26	2.377
Calibration Post Zero Cylinder Bias	2.08	2.18	1.98	2.080
Calibration Post Zero Cylinder Drift	0.2	0.1	0.2	0.167
Calibration Post High Cylinder ID	ALM019335 - Nox	ALM019335 - Nox	ALM019335 - Nox	
Calibration Post High Cylinder Instrument Response	48.74	48.85	48.79	48.793
Calibration Post High Cylinder Bias	-0.71	-0.61	-0.66	-0.660
Calibration Post High Cylinder Drift	5.9999999999 9999E-02	0.1	0.05	0.070
Cavg	45.81	40.37	40.08	42.087
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	46.7239	40.8317	40.5098	42.688
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 7E 3

Run Number	1.4	2.1	2.2	
Test Date	12/15/2009	12/16/2009	12/16/2009	
Run Start Time	3:40:00 PM	10:25:00 AM	11:45:00 AM	
Run Finish Time	4:40:00 PM	11:25:00 AM	12:45:00 PM	
Carbon Dioxide, %	6.71	6.106	5.515	6.110
Oxygen, %	12.16	12.952	13.579	12.897
Fuel Factor	1.3	1.3	1.33	
Dry Volumetric Flow Rate, dry scfm	23135	23810	25104	24,016.333
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.67	2.33	2.437
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	114.75	113.38	113.38	113.837
Operating Units	ppm	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	10	11	11	10.667
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	2.26	0.47	1.86	1.530
Calibration Pre Zero Cylinder Bias	1.98	0.2	1.43	1.203
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	ALM019335 - Nox	ALM019335 - Nox	ALM019335 - Nox	
Calibration Pre High Cylinder Instrument Response	48.79	47.13	47.29	47.737
Calibration Pre High Cylinder Bias	-0.66	-1.79	-1.65	-1.367
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.88	1.86	3.47	2.070
Calibration Post Zero Cylinder Bias	0.78	1.43	2.85	1.687
Calibration Post Zero Cylinder Drift	1.2	1.23	1.42	1.283
Calibration Post High Cylinder ID	ALM019335 - Nox	ALM019335 - Nox	ALM019335 - Nox	
Calibration Post High Cylinder Instrument Response	47.99	47.29	48.22	47.833
Calibration Post High Cylinder Bias	-1.36	-1.65	-0.83	-1.280
Calibration Post High Cylinder Drift	0.7	0.14	0.82	0.553
Cavg	45.37	54.5	46.54	48.803
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	46.6813	57.8003	48.5554	51.012
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 7E 3 6

Run Number	2.3	2.4	3.1	
Test Date	12/16/2009	12/16/2009	12/17/2009	
Run Start Time	1:23:00 PM	2:35:00 PM	10:56:00 AM	
Run Finish Time	2:23:00 PM	3:35:00 PM	11:56:00 AM	
Carbon Dioxide, %	6.198	6.341	5.574	6.038
Oxygen, %	12.744	12.574	13.65	12.989
Fuel Factor	1.32	1.31	1.3	
Dry Volumetric Flow Rate, dry scfm	25072	25065	22424	24,187.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.33	2.33	2.31	2.323
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	113.38	113.38	114.71	113.823
Operating Units	ppm	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	11	11	12	11.333
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	3.47	2.78	-0.01	2.080
Calibration Pre Zero Cylinder Bias	2.85	2.24	0	1.697
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	ALM019335 - Nox	ALM019335 - Nox	ALM019335 - Nox	
Calibration Pre High Cylinder Instrument Response	48.22	47.74	46.49	47.483
Calibration Pre High Cylinder Bias	-0.83	-1.25	-2.33	-1.470
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	2.78	3.72	0.03	2.177
Calibration Post Zero Cylinder Bias	2.24	3.07	0.03	1.780
Calibration Post Zero Cylinder Drift	0.61	0.83	0.03	0.490
Calibration Post High Cylinder ID	ALM019335 - Nox	ALM019335 - Nox	ALM019335 - Nox	
Calibration Post High Cylinder Instrument Response	47.74	48.39	46.71	47.613
Calibration Post High Cylinder Bias	-1.25	-0.68	-2.14	-1.357
Calibration Post High Cylinder Drift	0.42	0.57	0.19	0.393
Cavg	54.81	52.97	40.09	49.290
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	57.4982	55.3616	42.9275	51.929
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				

# CCCSO Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - Method 7E 3 6 9

Run Number	3.2	3.3	3.4	
Test Date	12/17/2009	12/17/2009	12/17/2009	
Run Start Time	12:15:00 PM	1:47:00 PM	3:12:00 PM	
Run Finish Time	1:15:00 PM	2:47:00 PM	4:12:00 PM	
Carbon Dioxide, %	5.62	5.472	5.485	5.526
Oxygen, %	13.575	13.749	13.682	13.669
Fuel Factor	1.3	1.31	1.32	
Dry Volumetric Flow Rate, dry scfm	22423	22429	22429	22,427.000
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Moisture, %	2.31	2.31	2.31	2.310
Analyzer Make				#Num!
Analyzer Model				#Num!
Analyzer Serial Number				#Num!
Operating Range	114.71	114.71	114.71	114.710
Operating Units	ppm	ppm	ppm	
No. Readings/Avg.	60	60	60	60.000
Calibration Set	12	12	12	12.000
Calibration Pre Zero Cylinder ID	Zero	Zero	Zero	
Calibration Pre Zero Cylinder Instrument Response	0.03	0.75	0.03	0.270
Calibration Pre Zero Cylinder Bias	0.03	0.66	0.03	0.240
Calibration Pre Zero Cylinder Drift	0	0	0	0.000
Calibration Pre High Cylinder ID	ALM019335 - Nox	ALM019335 - Nox	ALM019335 - Nox	
Calibration Pre High Cylinder Instrument Response	46.71	46.94	46	46.550
Calibration Pre High Cylinder Bias	-2.14	-1.94	-2.75	-2.277
Calibration Pre High Cylinder Drift	0	0	0	0.000
Calibration Post Zero Cylinder ID	Zero	Zero	Zero	
Calibration Post Zero Cylinder Instrument Response	0.75	0.03	0.52	0.433
Calibration Post Zero Cylinder Bias	0.66	0.03	0.46	0.383
Calibration Post Zero Cylinder Drift	0.63	0.63	0.43	0.563
Calibration Post High Cylinder ID	ALM019335 - Nox	ALM019335 - Nox	ALM019335 - Nox	
Calibration Post High Cylinder Instrument Response	46.94	46	46.25	46.397
Calibration Post High Cylinder Bias	-1.94	-2.75	-2.54	-2.410
Calibration Post High Cylinder Drift	0.2	0.81	0.21	0.407
Cavg	41.87	37.7	36.93	38.833
Cavg Units	ppmvd	ppmvd	ppmvd	
Cgas	44.5753	40.403	39.8928	41.624
Cgas Units	ppmvd	ppmvd	ppmvd	
Fuel Type	Gas - Natural	Gas - Natural	Gas - Natural	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000
Cgasw	0	0	0	0.000
Cgasw Units				



# CCCSD Information Collection Request Source Test for EPA

2/16/2010

Stack Exit - OTM - 27/28

Run Number	1	2	3	
Test Date	12/15/2009	12/15/2009	12/16/2009	
Run Start Time	8:36:00 AM	1:18:00 PM	8:14:00 AM	
Run Finish Time	12:06:00 PM	5:16:00 PM	12:01:30 PM	
Net Traversing Points	20	20	20	
Net Run Time, minutes	208	234	217	
Nozzle Diameter, inches	0.168	0.168	0.168	0.168
Pitot Tube Coefficient	0.8726	0.8726	0.8726	0.873
Dry Gas Meter Calibration Factor	0.975	0.975	0.975	0.975
Barometric Pressure, inches of Mercury	30.1	30.1	30.15	30.117
Average Orifice Meter Differential, inches H2O	0.45	0.45	0.45	0.450
Dry Gas Meter Volume Sampled, cubic feet	82.765	94.716	90.130	89.204
Average Dry Gas Meter Temperature, °F	63.00	67.60	58.55	63.050
Dry Gas Meter Volume Sampled, dscf	82.048	93.076	90.265	88.463
Total Moisture Liquid collected, g	48.4	46.5	39.5	44.800
Volume of Water Vapor, standard cubic feet	2.28	2.19	1.86	2.110
Moisture Content of Stack Gas, %	2.70	2.30	2.02	2.340
Moisture Saturation at Stack Gas Temperature, %	16.13	14.78	14.63	15.180
Dry Mole Fraction	0.973	0.977	0.9798	0.977
Carbon Dioxide, %	6.9	6.3	6.1	6.433
Oxygen, %	11.8	12.6	12.9	12.433
Carbon Monoxide & Nitrogen, %	81.3	81.1	81	81.133
Fuel Factor	1.32	1.32	1.31	
Dry Molecular Weight, lb/lb-Mole	29.58	29.51	29.49	29.527
Wet Molecular weight, lb/lb-Mole	29.27	29.25	29.26	29.260
Flue Gas Static Pressure, inches of H2O	-0.2	-0.2	-0.2	-0.200
Absolute Flue Gas Pressure, inches of Mercury	30.09	30.09	30.14	30.107
Average Stack Gas Temperature, °F	132.70	129.40	129.10	130.400
Average Velocity Head, inches of H2O	0.723	0.704	0.625	0.684
Average Stack Gas Velocity, feet/second	52.03	51.22	48.20	50.483
Stack Cross-Sectional Area, square feet	9.621	9.621	9.621	9.621
Dry Volumetric Flow Rate, dry scfm	26,181.7	26,025.0	24,614.0	25,606.900
Actual Wet Volumetric Flue Gas Flow Rate, acfm	30,034.8	29,567.3	27,823.9	29,142.000
Percent Isokinetic of Sampling Rate, %	94.2	95.5	105.6	98.433
Percent Excess Air, %	122.1	143.0	152.1	139.067
F-Factor, dscfm/MMBtu @ %O2	8710	8710	8710	8,710.000
Round Duct Diameter, inches	42	42	42	
Rectangular Duct Width, inches	0	0	0	
Rectangular Duct Length, inches	324	324	324	
Fw	10610	10610	10610	10,610.000
Fc	1040	1040	1040	1,040.000