

Council Bluffs Energy Center
 Title V Actual Emissions
 For the Year

2004

CEMS Values

Tons lbs/mmBtu
 SOx NOx YR mmBtu
 1252.60 0.474 4768676
 1,130.18 Tons

Emission Point	001	Natural Gas				001	Total			
	Coal					Pollutant	Tons/Yr			
Actual Throughput	234,632.00 Tons	17.62 MMcf								
	8525 Ave Btu/lb									
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr	Pollutant	Tons/Yr
PM10	4.6900E-02	lb/mmBtu	0.00	93.81	7.60E+00	lb/MMcf	0.00	0.07	PM10	93.88
PM	7.0000E-02	lb/mmBtu	0.00	140.02	7.60E+00	lb/MMcf	0.00	0.07	PM	140.09
SOx		CEM Value		1,252.60	CEM	CEM			SOx	1,252.60
NOx		CEM Value		1,130.18	CEM	CEM			NOx	1,130.18
VOC	6.0000E-02	lb/ton		7.04	5.50E+00	lb/MMcf		0.05	VOC	7.09
CO	5.0000E-01	lb/ton		58.66	8.40E+01	lb/MMcf		0.74	CO	59.40
Lead	NA								Lead	0.00
Antimony	1.8000E-05	lb/ton		0.00					7440360 Antimony	0.00
Arsenic compounds	4.1000E-04	lb/ton		0.05					7440382 Arsenic cor	0.05
Beryllium compounds	2.1000E-05	lb/ton		0.00					7440417 Beryllium c	0.00
Cadmium compounds	5.1000E-05	lb/ton		0.01					7440439 Cadmium c	0.01
Chromium compounds	3.3900E-04	lb/ton		0.04					7440473 Chromium	0.04
Cobalt	1.0000E-04	lb/ton		0.01					7440484 Cobalt	0.01
Cyanide	2.5000E-03	lb/ton		0.29					Cyanide	0.29
Hydrochloric acid	1.2997E-01	lb/ton		15.25					7647010 Hydrochlori	15.25
Hydrogen fluoride	6.9112E-02	lb/ton		8.11					7664393 Hydrogen f	8.11
Lead compounds	4.2000E-04	lb/ton		0.05					Lead comp	0.05
Manganese compounds	4.9000E-04	lb/ton		0.06					7439965 Manganese	0.06
Mercury compounds	1.0663E-04	lb/ton		0.01					7439976 Mercury co	0.01
Nickel compounds	2.8000E-04	lb/ton		0.03					7440020 Nickel com	0.03
POM	2.0800E-06	lb/mmBtu		0.00					POM	0.00
Radionuclides	9.5000E-02	lb/ton PM		0.01					Radionuclid	0.01
Selenium compounds	1.3000E-03	lb/ton		0.15					7782492 Selenium c	0.15
Acetaldehyde	5.7000E-04	lb/ton		0.07					75070 Acetaldehy	0.07
Acetophenone	1.5000E-05	lb/ton		0.00					98862 Acetopheni	0.00
Acrolein	2.9000E-04	lb/ton		0.03					107028 Acrolein	0.03
Benzene	1.3000E-03	lb/ton		0.15					71432 Benzene	0.15
Benzyl Chloride	7.0000E-04	lb/ton		0.08					100447 Benzyl Chk	0.08
Di(2-ethylhexyl)phthalate	7.3000E-05	lb/ton		0.01					117817 Di(2-ethylh	0.01
Bromoform	3.9000E-05	lb/ton		0.00					75252 Bromoform	0.00
Carbon Disulfide	1.3000E-04	lb/ton		0.02					75150 Carbon Dis	0.02
2-Chloroacetophenone	7.0000E-06	lb/ton		0.00					532574 2-Chloroac	0.00
Chlorobenzene	2.2000E-05	lb/ton		0.00					108907 Chlorobenz	0.00
Chloroform	5.9000E-05	lb/ton		0.01					67663 Chloroform	0.01
Cumene	5.3000E-06	lb/ton		0.00					98828 Cumene	0.00
Dimethyl Sulfate	4.8000E-05	lb/ton		0.01					77781 Dimethyl S	0.01
Ethylbenzene	9.4000E-05	lb/ton		0.01					100414 Ethylbenze	0.01
Chloroethane	4.2000E-05	lb/ton		0.00					75003 Chloroetha	0.00

1,2-Dichloroethane	4.0000E-05 lb/ton	0.00			107062 1,2-Dichloro	0.00
Formaldehyde	2.4000E-04 lb/ton	0.03	7.5000E-02 lb/MMcf	0.00	50000 Formaldehy	0.03
Hexane	6.7000E-05 lb/ton	0.01	1.8000E+00 lb/MMcf	0.02	110543 Hexane	0.03
Isophorone	5.8000E-04 lb/ton	0.07			78591 Isophorone	0.07
Methyl Tert Butyl Ether	3.5000E-05 lb/ton	0.00			1634044 Methyl Tert	0.00
Bromomethane	1.6000E-04 lb/ton	0.02			74839 Bromomet	0.02
Methyl Chloride	5.3000E-04 lb/ton	0.06			74873 Methyl Chl	0.06
Methyl Ethyl Ketone	3.9000E-04 lb/ton	0.05			78933 Methyl Eth	0.05
methyl Hydrazine	1.7000E-04 lb/ton	0.02			60344 methyl Hyd	0.02
Methyl Methacrylate	2.0000E-05 lb/ton	0.00			80626 Methyl Met	0.00
Dichloromethane	2.9000E-04 lb/ton	0.03			75092 Dichlorome	0.03
Phenol	1.6000E-05 lb/ton	0.00			108952 Phenol	0.00
Propionaldehyde	3.8000E-04 lb/ton	0.04			123386 Propionaldi	0.04
Styrene	2.5000E-05 lb/ton	0.00			100425 Styrene	0.00
Tetrachloroethylene	4.3000E-05 lb/ton	0.01			127184 Tetrachlor	0.01
Toluene	2.4000E-04 lb/ton	0.03			108883 Toluene	0.03
1,1,1 Trichloroethane	2.0000E-05 lb/ton	0.00			71556 1,1,1 Trichl	0.00
Vinyl Acetate	7.6000E-06 lb/ton	0.00			108054 Vinyl Aceta	0.00
Xylene	3.7000E-05 lb/ton	0.00			1330207 Xylene	0.00

Oil

Actual Throughput 0.00 1000 gal

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	1.0000E+00	lb/1000 gal	0.00	0.00
PM	2.0000E+00	lb/1000 gal	0.00	0.00
SOx	CEM	CEM		
NOx	CEM	CEM		
VOC	2.0000E-01	lb/1000 gal		0.00
CO	5.0000E+00	lb/1000 gal		0.00
Lead compounds	1.2400E-03	lb/1000 gal		0.00

CEMS Values

Tons	lbs/mmBtu
SOx	NOx YR mmBtu
1634.90	0.362 6029245
	1,091.29 Tons

Emission Point	002	Natural Gas				002	Total			
	Coal									
Actual Throughput	337,033.00 Tons	26.32 MMcf								
	8528 Ave Btu/lb									
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr	Pollutant	Tons/Yr
PM10	2.9500E-02	lb/mmBtu	0.00	84.79	7.60E+00	lb/MMcf	0.00	0.10	PM10	84.89
PM	4.4000E-02	lb/mmBtu	0.00	126.47	7.60E+00	lb/MMcf	0.00	0.10	PM	126.57
SOx		CEM Value		1,634.90	CEM	CEM			SOx	1,634.90
NOx		CEM Value		1,091.29	CEM	CEM			NOx	1,091.29
VOC	6.0000E-02	lb/ton		10.11	5.50E+00	lb/MMcf		0.07	VOC	10.18
CO	3.2500E-01	lb/mmBtu	CEM	934.12	2.40E+01	lb/MMcf		0.32	CO	934.44
Lead	NA								Lead	0.00
Antimony	1.8000E-05	lb/ton		0.00					7440360 Antimony	0.00
Arsenic compounds	4.1000E-04	lb/ton		0.07					7440382 Arsenic cor	0.07
Beryllium compounds	2.1000E-05	lb/ton		0.00					7440417 Beryllium c	0.00
Cadmium compounds	5.1000E-05	lb/ton		0.01					7440439 Cadmium c	0.01
Chromium compounds	3.3900E-04	lb/ton		0.06					7440473 Chromium	0.06
Cobalt	1.0000E-04	lb/ton		0.02					7440484 Cobalt	0.02
Cyanide	2.5000E-03	lb/ton		0.42					Cyanide	0.42
Hydrochloric acid	1.2997E-01	lb/ton		21.90					7647010 Hydrochlori	21.90
Hydrogen fluoride	6.9112E-02	lb/ton		11.65					7664393 Hydrogen f	11.65
Lead compounds	4.2000E-04	lb/ton		0.07					Lead comp	0.07
Manganese compounds	4.9000E-04	lb/ton		0.08					7439965 Manganese	0.08
Mercury compounds	1.0663E-04	lb/ton		0.02					7439976 Mercury co	0.02
Nickel compounds	2.8000E-04	lb/ton		0.05					7440020 Nickel com	0.05
POM	2.4000E-06	lb/mmBtu		0.01					POM	0.01
Radionuclides	9.5000E-02	lb/ton	PM	0.01					Radionuclid	0.01
Selenium compounds	1.3000E-03	lb/ton		0.22					7782492 Selenium c	0.22
Acetaldehyde	5.7000E-04	lb/ton		0.10					75070 Acetaldehy	0.10
Acetophenone	1.5000E-05	lb/ton		0.00					98862 Acetopheni	0.00
Acrolein	2.9000E-04	lb/ton		0.05					107028 Acrolein	0.05
Benzene	1.3000E-03	lb/ton		0.22					71432 Benzene	0.22
Benzyl Chloride	7.0000E-04	lb/ton		0.12					100447 Benzyl Chk	0.12
Di(2-ethylhexyl)phthalate	7.3000E-05	lb/ton		0.01					117817 Di(2-ethylh	0.01
Bromoform	3.9000E-05	lb/ton		0.01					75252 Bromoform	0.01
Carbon Disulfide	1.3000E-04	lb/ton		0.02					75150 Carbon Dis	0.02
2-Chloroacetophenone	7.0000E-06	lb/ton		0.00					532574 2-Chloroac	0.00
Chlorobenzene	2.2000E-05	lb/ton		0.00					108907 Chlorobenz	0.00
Chloroform	5.9000E-05	lb/ton		0.01					67663 Chloroform	0.01
Cumene	5.3000E-06	lb/ton		0.00					98828 Cumene	0.00
Dimethyl Sulfate	4.8000E-05	lb/ton		0.01					77781 Dimethyl S	0.01
Ethylbenzene	9.4000E-05	lb/ton		0.02					100414 Ethylbenze	0.02
Chloroethane	4.2000E-05	lb/ton		0.01					75003 Chloroetha	0.01

1,2-Dichloroethane	4.0000E-05 lb/ton	0.01			107062 1,2-Dichloro	0.01
Formaldehyde	2.4000E-04 lb/ton	0.04	7.5000E-02 lb/MMcf	0.00	50000 Formaldehy	0.04
Hexane	6.7000E-05 lb/ton	0.01	1.8000E+00 lb/MMcf	0.02	110543 Hexane	0.03
Isophorone	5.8000E-04 lb/ton	0.10			78591 Isophorone	0.10
Methyl Tert Butyl Ether	3.5000E-05 lb/ton	0.01			1634044 Methyl Tert	0.01
Bromomethane	1.6000E-04 lb/ton	0.03			74839 Bromomet	0.03
Methyl Chloride	5.3000E-04 lb/ton	0.09			74873 Methyl Chl	0.09
Methyl Ethyl Ketone	3.9000E-04 lb/ton	0.07			78933 Methyl Eth	0.07
methyl Hydrazine	1.7000E-04 lb/ton	0.03			60344 methyl Hyd	0.03
Methyl Methacrylate	2.0000E-05 lb/ton	0.00			80626 Methyl Met	0.00
Dichloromethane	2.9000E-04 lb/ton	0.05			75092 Dichlorome	0.05
Phenol	1.6000E-05 lb/ton	0.00			108952 Phenol	0.00
Propionaldehyde	3.8000E-04 lb/ton	0.06			123386 Propionaldi	0.06
Styrene	2.5000E-05 lb/ton	0.00			100425 Styrene	0.00
Tetrachloroethaylene	4.3000E-05 lb/ton	0.01			127184 Tetrachlor	0.01
Toluene	2.4000E-04 lb/ton	0.04			108883 Toluene	0.04
1,1,1 Trichloroethane	2.0000E-05 lb/ton	0.00			71556 1,1,1 Trichl	0.00
Vinyl Acetate	7.6000E-06 lb/ton	0.00			108054 Vinyl Aceta	0.00
Xylene	3.7000E-05 lb/ton	0.01			1330207 Xylene	0.01

Actual Throughput		Oil		
		0.00 1000 gal		
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	1.0000E+00	lb/1000 gal	0.00	0.00
PM	2.0000E+00	lb/1000 gal	0.00	0.00
SOx	CEM	CEM		
NOx	CEM	CEM		
VOC	2.0000E-01	lb/1000 gal		0.00
CO	5.0000E+00	lb/1000 gal		0.00
Lead compounds	1.2400E-03	lb/1000 gal		0.00

CEMS Values

Tons	lbs/mmBtu
SOx	NOx
12652.80	0.427
	48280512
	10,307.89 Tons

Emission Point	003	Coal				Oil				003	Total
Actual Throughput	2,777,671.00 Tons	8561 Ave Btu/lb				432.64 1000 gal				Pollutant	Tons/Yr
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr	Pollutant	Tons/Yr	
PM10	1.7200E-02	lb/mmBtu	0.00	409.01	1.0000E+00	lb/1000 gal	0.00	0.22	PM10	409.23	
PM	2.5700E-02	lb/mmBtu	0.00	611.14	2.0000E+00	lb/1000 gal	0.00	0.43	PM	611.57	
SOx		CEM Value		12,652.80	CEM	CEM			SOx	12,652.80	
NOx		CEM Value		10,307.89	CEM	CEM			NOx	10,307.89	
VOC	6.0000E-02	lb/ton		83.33	2.0000E-01	lb/1000 gal		0.04	VOC	83.37	
CO	1.0000E-01	lb/mmBtu	CEM	2,377.96	5.0000E+00	lb/1000 gal		1.08	CO	2,379.05	
Lead	NA								Lead	0.00	
Antimony	1.8000E-05	lb/ton		0.02					7440360 Antimony	0.02	
Arsenic compounds	4.1000E-04	lb/ton		0.57					7440382 Arsenic cor	0.57	
Beryllium compounds	2.1000E-05	lb/ton		0.03					7440417 Beryllium c	0.03	
Cadmium compounds	5.1000E-05	lb/ton		0.07					7440439 Cadmium c	0.07	
Chromium compounds	3.3900E-04	lb/ton		0.47					7440473 Chromium	0.47	
Cobalt	1.0000E-04	lb/ton		0.14					7440484 Cobalt	0.14	
Cyanide	2.5000E-03	lb/ton		3.47					Cyanide	3.47	
Hydrochloric acid	1.2997E-01	lb/ton		180.51					7647010 Hydrochlori	180.51	
Hydrogen fluoride	6.9112E-02	lb/ton		95.98					7664393 Hydrogen f	95.98	
Lead compounds	4.2000E-04	lb/ton		0.58	1.2400E-03	lb/1000 gal		0.00	Lead comp	0.58	
Manganese compounds	4.9000E-04	lb/ton		0.68					7439965 Manganese	0.68	
Mercury compounds	1.0663E-04	lb/ton		0.15					7439976 Mercury co	0.15	
Nickel compounds	2.8000E-04	lb/ton		0.39					7440020 Nickel com	0.39	
POM	2.0800E-06	lb/mmBtu		0.05					POM	0.05	
Radionuclides	9.5000E-02	lb/ton	PM	0.03					Radionuclid	0.03	
Selenium compounds	1.3000E-03	lb/ton		1.81					7782492 Selenium c	1.81	
Acetaldehyde	5.7000E-04	lb/ton		0.79					75070 Acetaldehy	0.79	
Acetophenone	1.5000E-05	lb/ton		0.02					98862 Acetopheni	0.02	
Acrolein	2.9000E-04	lb/ton		0.40					107028 Acrolein	0.40	
Benzene	1.3000E-03	lb/ton		1.81					71432 Benzene	1.81	
Benzyl Chloride	7.0000E-04	lb/ton		0.97					100447 Benzyl Chk	0.97	
Di(2-ethylhexyl)phthalate	7.3000E-05	lb/ton		0.10					117817 Di(2-ethylh	0.10	
Bromoform	3.9000E-05	lb/ton		0.05					75252 Bromoform	0.05	
Carbon Disulfide	1.3000E-04	lb/ton		0.18					75150 Carbon Dis	0.18	
2-Chloroacetophenone	7.0000E-06	lb/ton		0.01					532574 2-Chloroac	0.01	
Chlorobenzene	2.2000E-05	lb/ton		0.03					108907 Chlorobenz	0.03	
Chloroform	5.9000E-05	lb/ton		0.08					67663 Chloroform	0.08	
Cumene	5.3000E-06	lb/ton		0.01					98828 Cumene	0.01	
Dimethyl Sulfate	4.8000E-05	lb/ton		0.07					77781 Dimethyl S	0.07	
Ethylbenzene	9.4000E-05	lb/ton		0.13					100414 Ethylbenze	0.13	
Chloroethane	4.2000E-05	lb/ton		0.06					75003 Chloroetha	0.06	

1,2-Dichloroethane	4.0000E-05 lb/ton	0.06
Formaldehyde	2.4000E-04 lb/ton	0.33
Hexane	6.7000E-05 lb/ton	0.09
Isophorone	5.8000E-04 lb/ton	0.81
Methyl Tert Butyl Ether	3.5000E-05 lb/ton	0.05
Bromomethane	1.6000E-04 lb/ton	0.22
Methyl Chloride	5.3000E-04 lb/ton	0.74
Methyl Ethyl Ketone	3.9000E-04 lb/ton	0.54
methyl Hydrazine	1.7000E-04 lb/ton	0.24
Methyl Methacrylate	2.0000E-05 lb/ton	0.03
Naphthalene	1.3000E-05 lb/ton	0.02
Dichloromethane	2.9000E-04 lb/ton	0.40
Phenol	1.6000E-05 lb/ton	0.02
Propionaldehyde	3.8000E-04 lb/ton	0.53
Styrene	2.5000E-05 lb/ton	0.03
Tetrachloroethaylene	4.3000E-05 lb/ton	0.06
Toluene	2.4000E-04 lb/ton	0.33
1,1,1 Trichloroethane	2.0000E-05 lb/ton	0.03
Vinyl Acetate	7.6000E-06 lb/ton	0.01
Xylene	3.7000E-05 lb/ton	0.05

107062 1,2-Dichloro	0.06
50000 Formaldehy	0.33
110543 Hexane	0.09
78591 Isophorone	0.81
1634044 Methyl Tert	0.05
74839 Bromomet	0.22
74873 Methyl Chl	0.74
78933 Methyl Eth	0.54
60344 methyl Hyd	0.24
80626 Methyl Met	0.03
91203 Naphthaler	0.02
75092 Dichlorome	0.40
108952 Phenol	0.02
123386 Propionaldi	0.53
100425 Styrene	0.03
127184 Tetrachlor	0.06
108883 Toluene	0.33
71556 1,1,1 Trichl	0.03
108054 Vinyl Aceta	0.01
1330207 Xylene	0.05

Used Oil

Actual Throughput	0.04 1000 gal	% ash	3.0
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Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	5.1000E+01	lb/1000 gal	95.0	0.00
PM	6.1000E+01	lb/1000 gal	95.0	0.00
SOx	CEM			
NOx	CEM			
VOC	1.0000E+00	lb/1000 gal		0.00
CO	5.0000E+00	lb/1000 gal		0.00
Lead compounds	1.6800E+00	lb/1000 gal		0.00

Emission Point 004
Oil

Actual Throughput 0.00 1000 gal % sulfur 0.5

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	1.00E+00	lb/1000 gal		0.00
PM	2.00E+00	lb/1000 gal		0.00
SOx	1.42E+02	lb/1000 gal		0.00
NOx	2.40E+01	lb/1000 gal		0.00
VOC	2.00E-01	lb/1000 gal		0.00
CO	5.00E+00	lb/1000 gal		0.00

004 Pollutant	Total Tons/Yr
PM10	0.00
PM	0.00
SOx	0.00
NOx	0.00
VOC	0.00
CO	0.00

Emission Point 005

Actual Throughput bulldozing 10,428.00 hours wind erosion 23.16 Acres

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr
PM10	1.3258E+01	lb/hr		69.13	1.7060E+04	lb/acre	75	49.39
PM	4.9400E+01	lb/hr		257.57	3.4120E+04	lb/acre	75	98.78

005 Pollutant	Tons/Yr
PM10	118.52
PM	356.35

Emission Point 006

Actual Throughput Dumper building dust collector 1 3,325,123.00 tons

This dust collector was replaced mid year. Assume the coal throughput was equal for each half. This emission factor is the average of the old and new factors that are based on test data.

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	2.4800E-03	lb/ton	0.00	4.12
PM	2.4800E-03	lb/ton	0.00	4.12

006 Pollutant	Tons/Yr
PM10	4.12
PM	4.12

Emission Point	011					
	Transfer house 3 - conveyor 4ab					
Actual Throughput	3,349,336.00 tons					
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	011	
PM10	4.0667E-04	lb/ton	0.00	0.68	Pollutant	Tons/Yr
PM	4.0667E-04	lb/ton	0.00	0.68	PM10	0.68
					PM	0.68
Emission Point	013					
	Transfer house 4 - conveyor 5ab					
Actual Throughput	2,777,671.00 tons					
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	013	
PM10	1.4947E-03	lb/ton	0.00	2.08	Pollutant	Tons/Yr
PM	1.4947E-03	lb/ton	0.00	2.08	PM10	2.08
					PM	2.08
Emission Point	014					
	#3 East coal silos					
Actual Throughput	1,190,430.43 tons					
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	014	
PM10	6.9111E-03	lb/ton	0.00	4.11	Pollutant	Tons/Yr
PM	6.9111E-03	lb/ton	0.00	4.11	PM10	4.11
					PM	4.11
Emission Point	015					
	#3 West coal silos					
Actual Throughput	1,587,240.57 tons					
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	015	
PM10	5.7556E-03	lb/ton	0.00	4.57	Pollutant	Tons/Yr
PM	5.7556E-03	lb/ton	0.00	4.57	PM10	4.57
					PM	4.57
Emission Point	016					
	1 & 2 Crusher house - conveyor 9					
Actual Throughput	571,665.00 tons					
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	016	
PM10	1.0400E-03	lb/ton	0.00	0.30	Pollutant	Tons/Yr
PM	1.0400E-03	lb/ton	0.00	0.30	PM10	0.30
					PM	0.30

Emission Point	017												
	1 & 2 Tripper												
Actual Throughput	571,665.00 tons												
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr					017	Pollutant	Tons/Yr		
PM10	1.6800E-03	lb/ton	0.00	0.48					PM10		0.48		
PM	1.6800E-03	lb/ton	0.00	0.48					PM		0.48		
Emission Point	018												
	Ash Haul Road												
Actual Throughput	3424.00 miles												
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr					018	Pollutant	Tons/Yr		
PM10	6.2000E+00	lb/mile	50.00	5.31					PM10		5.31		
PM	1.2400E+01	lb/mile	50.00	10.61					PM		10.61		
Emission Point	019	EU19a											
	Ash Pond Dumping		EF from Fire 30500707			Ash pond wind erosion	EU19c						
Actual Throughput	66,237.00 Tons					162.00 acres (Max)							
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr		Emission Factor	Units	Control Eff	Tons/Yr	019	Pollutant	Tons/Yr	
PM10	1.0000E-01	lb/ton	0.00	3.31		3.8000E+02	lb/acre	50.00	15.39	PM10		19.11	
PM	2.0000E-01	lb/ton	0.00	6.62		7.6000E+02	lb/acre	50.00	30.78	PM		38.07	
Actual Throughput	Ash Grading	EU19b											
	500.00 miles												
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr									
PM10	3.3000E+00	lb/mile	50.00	0.41									
PM	5.3700E+00	lb/mile	50.00	0.67									
Emission Point	020												
	Flyash Truck loading #3												
Actual Throughput	108829.00 Tons		EF from Fire 30501107										
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr						020	Pollutant	Tons/Yr	
PM10	1.4000E-01	lb/ton	74.30	1.96						PM10		1.96	
PM	2.4000E-01	lb/ton	74.30	3.36						PM		3.36	

Emission Point	021			
	Flyash Truck loading 1 & 2			
Actual Throughput	22385.00 Tons	EF from Fire 30501107		
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	1.4000E-01	lb/ton	74.30	0.40
PM	2.4000E-01	lb/ton	74.30	0.69

021	
Pollutant	Tons/Yr
PM10	0.40
PM	0.69

Emission Point	025			
	Glycol storage tank			
Actual Throughput	0.22	1000 gal		
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
VOC	9.1630E+03	lb/1000 gal		1.01
Ethylene glycol	9.1630E+03	lb/1000 gal		1.01

025	
Pollutant	Tons/Yr
VOC	1.01
107211 Ethylene gl	1.01

Emission Point 026
 Solvent parts cleaning - 3 washers fugitive
 Actual Throughput 943.00 gal

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
VOC	1.6650E+00	lb/gal		0.79
1,1,1 Trichloroethane	8.3300E-03	lb/gal		0.00
Ethylbenzene	8.3300E-03	lb/gal		0.00
Tetrachlorethylene	8.3300E-03	lb/gal		0.00
Toluene	8.3300E-03	lb/gal		0.00
Xylenes (mixed isomers)	1.6650E-02	lb/gal		0.01

026		
Pollutant		Tons/Yr
VOC		0.79
71556 1,1,1 Trichl		0.00
100414 Ethylbenze		0.00
127184 Tetrachlore		0.00
108883 Toluene		0.00
1330207 Xylenes (m		0.01

Emission Point 027
 Diesel fire pump stack
 Actual Throughput 0.20 1000 gal

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	4.2500E+01	lb/1000 gal		0.00
PM	4.2500E+01	lb/1000 gal		0.00
SOx	3.9700E+01	lb/1000 gal		0.00
NOx	6.0400E+02	lb/1000 gal		0.06
VOC	4.9300E+01	lb/1000 gal		0.00
CO	1.3000E+02	lb/1000 gal		0.01
Lead	NA			

027		
Pollutant		Tons/Yr
PM10		0.00
PM		0.00
SOx		0.00
NOx		0.06
VOC		0.00
CO		0.01

Emission Point 30
 EU028 Stockout Conveyor 7
 Actual Throughput 1,384,787.00 tons

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	9.4000E-04	lb/ton	56.25	0.28
PM	2.0000E-03	lb/ton	56.25	0.61

75% control eff used for 9 months

30		
Pollutant		Tons/Yr
PM10		0.28
PM		0.61

Emission Point	31				EU031b Stacker/Reclaimer - Stackout						
	EU031a Stacker/Reclaimer - conveyor 3				Actual Throughput 1,940,336.00 ton						
Actual Throughput	1,940,336.00 tons										
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr	31	Pollutant	Tons/Yr
PM10	9.4000E-04	lb/ton	56.25	0.40	9.4000E-04	lb/ton	56.25	0.40		PM10	1.60
PM	2.0000E-03	lb/ton	56.25	0.85	2.0000E-03	lb/ton	56.25	0.85		PM	3.40
	EU031c Stacker/Reclaimer - Reclaim in				EU031d Stacker/Reclaimer - Reclaim wheel						
Actual Throughput	1,940,336.00 tons				Actual Throughput 1,940,336.00 ton						
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr			
PM10	9.4000E-04	lb/ton	56.25	0.40	9.4000E-04	lb/ton	56.25	0.40			
PM	2.0000E-03	lb/ton	56.25	0.85	2.0000E-03	lb/ton	56.25	0.85			
Emission Point	112										
	Units 1 & 2 Aux Boiler										
Actual Throughput	0.60 MMcf										
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr					112	Pollutant	Tons/Yr
PM10	7.6000E+00	lb/MMcf		0.00						PM10	0.00
PM	7.6000E+00	lb/MMcf		0.00						PM	0.00
SOx	6.0000E-01	lb/MMcf		0.00						SOx	0.00
NOx	1.4000E+02	lb/MMcf		0.04						NOx	0.04
VOC	5.5000E+00	lb/MMcf		0.00						VOC	0.00
CO	8.4000E+01	lb/MMcf		0.03						CO	0.03
Emission Point	113										
	Units 1 & 2 Emergency Generator										
Actual Throughput	0.18 1000 gal										
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr					113	Pollutant	Tons/Yr
PM10	4.2500E+01	lb/1000 gal		0.00						PM10	0.00
PM	4.2500E+01	lb/1000 gal		0.00						PM	0.00
SOx	3.9700E+01	lb/1000 gal		0.00						SOx	0.00
NOx	6.0400E+02	lb/1000 gal		0.05						NOx	0.05
VOC	4.9300E+01	lb/1000 gal		0.00						VOC	0.00
CO	1.3000E+02	lb/1000 gal		0.01						CO	0.01

Emission Point 114
 Units 3 Emergency Generator
 Actual Throughput 0.33 1000 gal % sulfur 0.5

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	8.5400E+00	lb/1000 gal		0.00
PM	8.5400E+00	lb/1000 gal		0.00
SOx	1.4100E+02	lb/1000 gal x S		0.01
NOx	9.7700E+01	lb/1000 gal		0.02
VOC	2.3800E+00	lb/1000 gal		0.00
CO	6.7200E+00	lb/1000 gal		0.00

114	
Pollutant	Tons/Yr
PM10	0.00
PM	0.00
SOx	0.01
NOx	0.02
VOC	0.00
CO	0.00

Emission Point 119A
 1 & 2 flyash silo bag filter
 Actual Throughput 22,385.00 ton
 EF from 30501107 - Table 11.12-2 Controlled
 Concrete Unloading to Elevated Silo

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	3.4000E-04	lb/ton	0.00	0.00
PM	9.9000E-04	lb/ton	0.00	0.01

119A	
Pollutant	Tons/Yr
PM10	0.00
PM	0.01

Emission Point 119B
 1 & 2 flyash silo bin vent filter
 Actual Throughput 22,385.00 ton
 EF from 30501107 - Table 11.12-2 Controlled
 Concrete Unloading to Elevated Silo

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	3.4000E-04	lb/ton	0.00	0.00
PM	9.9000E-04	lb/ton	0.00	0.01

119B	
Pollutant	Tons/Yr
PM10	0.00
PM	0.01