

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 2399

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant=s property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
LHS307	Unit 3 Coal Storage Area (4)	PM	6.00	26.29
		PM <sub>10</sub>	1.14	5.00
L3DSP	Unit 3 Dead Storage Pile (4)	PM	2.51	11.01
		PM <sub>10</sub>	0.48	2.09
L3SSS	Unit 3 Surge Silo Stackout/ Storage Pile (4)	PM	0.25	1.10
		PM <sub>10</sub>	0.25	1.10
L3SRW	Unit 3 Stacker/ Reclaimer Open Conveyor (4)	PM	0.05	0.21
		PM <sub>10</sub>	0.05	0.21
FAS1A-(1, 2, 3, 4), FAS1B-(1, 2, 3, 4)	Fly Ash Silo A Exhaust Vents	PM	0.94	4.13
		PM <sub>10</sub>	0.33	1.45
FAS1-1FUG	Silo A Fly Ash Unloader (4)	PM	0.03	0.05
		PM <sub>10</sub>	0.01	0.02
FAS1-2FUG	Silo A Fly Ash Unloader (4)	PM	0.03	0.05
		PM <sub>10</sub>	0.01	0.02
FAS2A-(1, 2, 3, 4), FAS2B-(1, 2, 3, 4)	Fly Ash Silo B Exhaust Vents	PM	0.94	4.13
		PM <sub>10</sub>	0.33	1.45
FAS2-1FUG	Silo B Fly Ash Unloader (4)	PM	0.02	0.05
		PM <sub>10</sub>	0.01	0.02

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			lb/hr	TPY
FAS2-3FUG	Silo B Fly Ash Unloader (4)	PM	0.02	0.05
		PM <sub>10</sub>	0.01	0.02
FAS10-1 and 2	Vacuum Pump Exhaust Vent	PM	0.37	1.61
		PM <sub>10</sub>	0.18	0.81
FAS10-3 and 4	Vacuum Pump Exhaust Vent	PM	0.37	1.61
		PM <sub>10</sub>	0.18	0.81
FAS10-5	Vacuum Pump Exhaust Vent	PM	0.18	0.81
		PM <sub>10</sub>	0.09	0.40
FAS20-1 and 2	Vacuum Pump Exhaust Vent	PM	0.37	1.61
		PM <sub>10</sub>	0.18	0.81
FAS20-3 and 4	Vacuum Pump Exhaust Vent	PM	0.37	1.61
		PM <sub>10</sub>	0.18	0.81
FAS20-5	Vacuum Pump Exhaust Vent	PM	0.18	0.81
		PM <sub>10</sub>	0.09	0.40
FAS30-1	Vacuum Pump Exhaust Vent	PM	0.18	0.81
		PM <sub>10</sub>	0.09	0.40
FAS30-2	Vacuum Pump Exhaust Vent	PM	0.18	0.81
		PM <sub>10</sub>	0.09	0.40
FAS30-3	Vacuum Pump Exhaust Vent	PM	0.18	0.81
		PM <sub>10</sub>	0.09	0.40
FAS30-4	Vacuum Pump Exhaust Vent	PM	0.18	0.81
		PM <sub>10</sub>	0.09	0.40
FAS30-5	Vacuum Pump Exhaust Vent	PM	0.18	0.81
		PM <sub>10</sub>	0.09	0.40
CHS3-1F	Rail Receiving Hopper (4)	PM/PM <sub>10</sub>	0.13	0.08

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			lb/hr	TPY
CHS3-C302	C302 transfer to Unit 3 Surge Silo Stackout Pile (4)	PM/PM <sub>10</sub>	0.02	0.01
CHS3-R1, CHS3-7F	C301 transfer to Live Storage Silo or Unit 3 Surge Silo Stackout	PM/PM <sub>10</sub>	0.04	0.03
CHS3-2F	Live Storage Silo transfer to C304 (4)	PM/PM <sub>10</sub>	0.01	0.01
CHS3-8F	Unit 3 Surge Silo Stackout transfer to C303 and C304 (4)	PM/PM <sub>10</sub>	0.01	0.01
CHS3-BH1	Crushers	PM/PM <sub>10</sub>	0.54	0.90
CHS3-3F	C306 transfer to C308 and C307 transfer to C309 (4)	PM/PM <sub>10</sub>	0.01	0.02
CHS3-R2	C308 and C309 transfer to Transfer Tower 32 Surge Bin (4)	PM/PM <sub>10</sub>	0.02	0.03
CHS3-4F	Transfer Tower 32 Surge Bin transfer to C310 and C312 (4)	PM/PM <sub>10</sub>	0.01	0.03
CHS3-5F	C310 transfer to C311 (4)	PM/PM <sub>10</sub>	0.01	0.01
CHS3-R3	C311 transfer to Pulveriser Silos	PM/PM <sub>10</sub>	0.01	0.01
CHS3-6F	C312 transfer to C313 (4)	PM/PM <sub>10</sub>	0.01	0.01
CHS3-R4	C313 transfer to Pulveriser Silos	PM/PM <sub>10</sub>	0.01	0.01

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			lb/hr	TPY
CHS3-SR	Unit 3 Stack/Reclaimer (4)	PM	0.08	0.03
		PM <sub>10</sub>	0.01	0.01
CHS23-TC	C303 Transfer to Units 1 and 2 Live Storage Pile (4)	PM/PM <sub>10</sub>	<0.01	<0.01
CHS123-3F	Units 1 and 2 Live Storage Pile transfer to C302 (4)	PM/PM <sub>10</sub>	0.01	<0.01
E-TRANSFR301	Transfer from C306 and C307 to Sample Feeder (4)	PM/PM <sub>10</sub>	<0.01	<0.01
E-TRANSFR302	Transfer from Sample Feeder to Coal Analyzer (4)	PM/PM <sub>10</sub>	<0.01	<0.01
E-CRUSHER301	Primary Sample Crusher (4)	PM/PM <sub>10</sub>	<0.01	<0.01
E-TRANSFR303	Transfer from Coal Analyzer to Reject Conveyor (4)	PM/PM <sub>10</sub>	<0.01	<0.01
E-TRANSFR304	Transfer from Reject Conveyor to C306 and C307 (4)	PM/PM <sub>10</sub>	<0.01	<0.01

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
 PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule and material throughput representations:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

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Coal Handling: 6,000,000 tons per year (tons/yr) (total)

Fly Ash Handling (truck and railcar facilities): 1,600 tons/hr/silo or 3,000,000 tons/yr/silo

Source Name	Emission	Throughput (tph)
Rail Receiving Hopper	Transfer	4,800
Receiving Hopper transfer to Conveyor 301	Transfer	4,800
Units 1 and 2 Live Storage Surge Pile transfer to	Transfer	1,800
Conveyor 302 transfer to Unit 3 Surge Silo	Transfer	1,800
Conveyor 301 transfer to Live Storage Silo	Exhaust Vent	4,800
Conveyor 301 transfer to Unit 3 Surge Silo	Transfer	4,800
Live Storage Silo transfer to Conveyor 304	Transfer	2,600
Unit 3 Surge Silo Stackout transfer to Conveyor	Transfer	2,600
Unit 3 Surge Silo Stackout transfer to Conveyor	Transfer	1,200
Conveyor 304 transfer to Crusher Tower	Exhaust Vent	2,600
Conveyor 304 Bypass to Stacker/Reclaimer	Exhaust Vent	2,600
Conveyor 305 transfer to Crusher Tower	Exhaust Vent	1,800
Crushers (2)	Exhaust Vent	1,800
Crushers transfer to Conveyor 306	Exhaust Vent	1,800
Crushers transfer to Conveyor 307	Exhaust Vent	1,800
Conveyor 306 transfer to Conveyor 308	Transfer	1,800
Conveyor 307 transfer to Conveyor 309	Transfer	1,800
Conveyor 308 transfer to Transfer Tower 32	Exhaust Vent	1,800
Conveyor 309 transfer to Transfer Tower 32	Exhaust Vent	1,800
Transfer Tower 32 Surge Bin transfer to	Transfer	600
Transfer Tower 32 Surge Bin transfer to	Transfer	600
Conveyor 310 transfer to Conveyor 311	Transfer	600
Conveyor 311 transfer to Pulveriser Silos	Exhaust Vent	600
Conveyor 312 transfer to Conveyor 313	Transfer	600
Conveyor 312 transfer to Pulveriser Silos	Exhaust Vent	600
S/R Reversible Belt 305A transfer to Belt 305C	Transfer	1,800
S/R Belt 305C reclaim to Belt 305	Transfer	1,800
S/R Belt 305B transfer to Belt 305A	Transfer	2,600
Conveyor 305 transfer to Belt 305B	Transfer	2,600
Conveyor 303 transfer to Units 1 and 2 Live	Transfer	1,200

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			lb/hr	TPY

Dated November 16, 2009