Fugutive Calculations

Source		PM10 Particulate Multiplier k
Storgae Pile Wind Erosion		
Active Storage Dome or Inactive Pile Conveyor Loadout	TP1	0.35
Stackout Conveyor #3 to Inactive Pile Lowering Well	TP2	0.35
Invactive Pile Chain Reclaimer to Conveyor #4B	TP3	0.35
Inactive Coal Pile	PIL 1	0.35
Temporary Slag Pile	PIL 2	
Slag Landfill	PIL 3	

		Particulate Multiplier k
PM10		
Roadways		
Paved Road		
Temporary Slag Pile	PIL 2	0.016
Coal Deliveries	ROAD1	0.016 0.016
Hauling Slag On-site to Landfill	ROAD2	0.016 0.016
Hauling Liquid Sulfur Off-site	ROAD3	0.016 0.016
Hauling Filter Cake On-site	ROAD4	0.016 0.016

Hauling ZLD Solids Off-site	ROAD5	0.016 0.016
Methanol Deliveries	ROAD6	0.016 0.016
Miscellaneous Deliveries	ROAD7	0.016 0.016

		Particulate Multiplier k
PM10		
Unpaved Road		
Inactive Coal Pile (PM10)	PIL1	1.5
Inactive Coal Pile (PM2.5)	PIL1	0.15
Slag Landfill	PIL 3	1.5
* Haul Road		
**Storage Pile		

		Release Height (meters)
All roads (consultant)		3.05 3.05
All roads (IEPA)		3.05

		Particulate Multiplier k
PM2.5		
Roadways		
Paved Road		
Temporary Slag Pile	PIL 2	0.0024

Coal Deliveries	ROAD1	0.0024 0.0024
Hauling Slag On-site to Landfill	ROAD2	0.0024 0.0024
Hauling Liquid Sulfur Off-site	ROAD3	0.0024 0.0024
Hauling Filter Cake On-site	ROAD4	0.0024 0.0024
Hauling ZLD Solids Off-site	ROAD5	0.0024 0.0024
Methanol Deliveries	ROAD6	0.0024 0.0024
Miscellaneous Deliveries	ROAD7	0.0024 0.0024

		Particulate Multiplier k
PM2.5		
Unpaved Road		
Inactive Coal Pile	PIL1	0.15
Slag Landfill	PIL 3	0.15
CO		
Gasification/Syngas Conditioning/Methanation Fugitves Equipment Leaks	ELC1	
Acid Gas Removal Fugitive Equipment Leaks	ELC2	
Sulfur Recovery Unit Fugitive Equipment Leaks	ELC3	
Miscellaneous Minor Process Area Fugitive Equipment Leaks	ELC4	

Mean Wind Speed U mph	Material Moisture Content M %	Material Silt Content %	Percentage of WS > 12mph	Material Handling PM10 Emissions Factor (lb/ton)	Thorghput (tons/hr)	Area of Pile sq. ft.	Acrage acres
9.35	3.37	5			2.00E+03		
	3.37						
9.35	3.37	5			2.00E+03		
	3.37						
9.35	3.37	5			710		
	3.37						
9.35	3.37	7.7	27.7		2000	423,582	9.724105
	3.37						
9.35	3.37	7.7			710		

From AP42 11.19.2-2

Road Surface Silt Loading sL (g/m2)	Average Vehicle Weight W (tons)	Segment Length (ft)	(trucks/hr)	Total VMT per Hour (VMT/hr)	Correction Factor C	Emission Factor (lb/VMT)
2.4	8.7	50	5	0.047348	0.00047	0.088488
2.4	40	4277	19.8	16.03875	0.00047	0.876523
2.4	15	6072	19.8	22.77	0.00047	0.200922
2.4	35	7814	2.3	3.403826	0.00047	0.717337
2.4	25	7814	2.3	3.403826	0.00047	0.432857
2.4	40	7286	0.4	0.55197	0.00047	0.876523
2.4	15	6864	0.4	0.52	0.00047	0.200922
2.4	35	8395	1.3	2.066951	0.00047	0.717337
2.4	25	7234	1.3	1.781098	0.00047	0.432857

2.4	40	7603		0.1	0.143996	0.00047	0.876523
2.4	15	5861		0.1	0.111004	0.00047	0.200922
2.4	40	7286		0.02	0.027598	0.00047	0.876523
2.4	15	6864		0.02	0.026	0.00047	0.200922
2.4	40	17846		0.1	0.337992	0.00047	0.876523
2.4	15	17846		0.1	0.337992	0.00047	0.200922

Surface Material Silt Content s %	Average Vehicle Weight W (tons)	Segment Length (mi)	Control Efficiency	(trucks/hr)	Total VMT per Hour (VMT/hr)	Correction Factor C	Emission Factor (lb/VMT)
29	55	1.18	0.5	1	0.000223	0.00047	6.143488
29	55	1.18	0.5				0.614349
4.9		9300		1	1.761364	0.00047	0.914629

Sigma Y	Sigma Z	Truck Height (feet)	Truck Height (meters)	Road Width (feet)	Road Width (meters)	Truck Height (meters)
5.63	2.84		3.05	20.02276	6.1029372	6.106
5.63	2.84		3.05	47.40552	14.449202	6.106
3.686	1.418	10	3.05	20	6	

Road Surface Silt Loading sL (g/m2)	Average Vehicle Weight W (tons)	Segment Length (ft)	(trucks/hr)	Total VMT per Hour (VMT/hr)	Correction Factor C	Emission Factor (lb/VMT)
2.4	8.7	50	5	0.047348	0.00036	0.012984

2.4	40	4277	19.8	16.03875	0.00047	0.131079
2.4	15	6072	19.8	22.77	0.00047	0.029739
2.4	35	7814	2.3	3.403826	0.00047	0.107201
2.4	25	7814	2.3	3.403826	0.00047	0.064529
2.4	40	7286	0.4	0.55197	0.00047	0.131079
2.4	15	6864	0.4	0.52	0.00047	0.029739
2.4	35	8395	1.3	2.066951	0.00047	0.107201
2.4	25	7234	1.3	1.781098	0.00047	0.064529
2.4	40	7603	0.1	0.143996	0.00047	0.131079
2.4	15	5861	0.1	0.111004	0.00047	0.029739
2.4	40	7286	0.02	0.027598	0.00047	0.131079
2.4	15	6864	0.02	0.026	0.00047	0.029739
2.4	40	17846	0.1	0.337992	0.00047	0.131079
2.4	15	17846	0.1	0.337992	0.00047	0.029739

Road Surface Silt Loading sL (g/m2)	**Average Vehicle Weight W** (tons)	**Segment Length** (ft)	(trucks/hr)	**Total VMT per Hour** (VMT/hr)	**Correction Factor C**	**Emission Factor** (lb/VMT)
4.9	55	6250	1	1.183712	0.00036	0.09115
4.9	55	9300	1	1.761364	0.00036	0.09115

Modifications to IEPA Calculations

PM10 Emissions Factor (lb/da/acre)	Annual PM10 Emissions Factor (lb/da/acre)	Transfer Point Derivation PM10 Emissions Factor (lb/ton)	Thorghput (tons/day)	Thorghput (tons/hr)	Number of Drops	Control Efficiency	Transfer Point Derivation PM10 Emissions (lb/hr)
		0.0012172		2.00E+03	1	0.5	1.217228869
		0.0012172		2.00E+03	1	0.5	1.217228869
		0.0012172		710	1	0.5	0.432116248
8.057622222	8.7433773	0.0012172		2000	1	0.5	1.217228869
				710			

#VALUE!

Total VMT Speed (mph)	Emission Rate (lb/hr)	Control	Emission Rate (lb/hr)	Emission Rate g/s	
	0.0041898	0.9	0.000418977	5.28E-05	
	14.058326	0.9	1.405832584	0.177135	
	4.5750001	0.9	0.457500011	0.057645	
			1.863332594	0.23478	0.2347799
	2.4416918	0.9	0.244169178	0.030765	
	1.4733704	0.9	0.147337039	0.018564	
	3.9150622		0.391506217	0.04933	0.0493298
	0.4838139	0.9	0.048381388	0.006096	
	0.1044796	0.9	0.010447958	0.001316	
			0.058829346	0.007412	0.0074125
	1.4827012	0.9	0.148270124	0.018682	
	0.7709613	0.9	0.077096125	0.009714	
			0.225366249	0.028396	0.0283961

0.1262159	0.9	0.012621593	0.00159	
0.0223031	0.9	0.002230313	0.000281	
		0.014851906	0.001871	0.0018713
0.0241907	0.9	0.002419069	0.000305	
0.005224	0.9	0.000522398	6.58E-05	
		0.002941467	0.000371	0.0003706
0.296258	0.9	0.029625798	0.003733	
0.0679102	0.9	0.006791021	0.000856	
		0.036416818	0.004589	0.0045885
				0.3267488

PM10 Emissions (lb/hr)	Total VMT Speed (mph)	Emission Rate (lb/hr)	Control	Emission Rate (lb/hr)	Emission Rate g/s	Consultants Emission Rate g/s
7.249315363	15	0.001373	0.9	0.000137298	1.73E-05	
0.724931536						
	15	1.6109944	0.9	0.161099436	0.020299	

Total VMT Speed (mph)	Emission Rate (lb/hr)	Control	Emission Rate (lb/hr)	Emission Rate g/s	Consultants Emission Rate g/s
	0.0006148	0.9	6.14758E-05	7.75E-06	

	2.1023414	0.9	0.210234139	0.02649	
	0.6771534	0.9	0.06771534	0.008532	
			0.27794948	0.035022	0.0350216
	0.3648939	0.9	0.036489394	0.004598	
	0.2196457	0.9	0.021964573	0.002768	
	0.5845397		0.058453967	0.007365	0.0073652
	0.0723516	0.9	0.007235157	0.000912	
	0.0154642	0.9	0.00154642	0.000195	
			0.008781577	0.001106	0.0011065
	0.2215794	0.9	0.022157944	0.002792	
	0.1149326	0.9	0.011493264	0.001448	
			0.033651208	0.00424	0.0042401
	0.0188749	0.9	0.001887486	0.000238	
	0.0033011	0.9	0.000330112	4.16E-05	
			0.002217599	0.000279	0.0002794
	0.0036176	0.9	0.000361758	4.56E-05	
	0.0007732	0.9	7.7321E-05	9.74E-06	
			0.000439079	5.53E-05	5.532E-05
	0.0443037	0.9	0.004430367	0.000558	
	0.0100515	0.9	0.00100515	0.000127	
			0.005435517	0.000685	0.0006849
					0.048753

Total VMT Speed (mph)	**Emission Rate** (lb/hr)	**Control**	**Emission Rate** (lb/hr)	**Emission Rate** g/s		**Consultants Emission Rate** g/s
15	0.1078952	0.9	0.026973812	0.003399		
15	0.1605481	0.9	0.040137032	0.005057		

ton/yr		PM10 Emissions (g/s)	Wind Erosion PM10 Emissions (lb/hr)	PM10 Emissions (g/s)
5.331462445	5.3314624450	0.1533708	0.00E+00	
5.331462445	5.3314624450	0.1533708	0.00E+00	
1.892669168	1.892669168	0.0544466	0.00E+00	
		0.1533708	1.6324	0.2056771

PIL 2

ROAD1

ROAD2

ROAD3

ROAD4

ROAD5

ROAD6

ROAD7

Source	PM2.5 Particulate Multiplier k	Mean Wind Speed U mph	Material Moisture Content M %
Storgae Pile Wind Erosion			
Active Storage Dome or Inactive Pile Conveyor Loadout	0.053	9.35	3.37
Stackout Conveyor #3 to Inactive Pile Lowering Well	0.053	9.35	3.37
Invactive Pile Chain Reclaimer to Conveyor #4B	0.053	9.35	3.37
Inactive Coal Pile	0.053	9.35	3.37
Temporary Slag Pile			
Slag Landfill			

Roadways

R1, R2

R5, R6, R7, R8, R9, R10, R11, R12, R13

R1, R3, R4, R5, R11, R20, R21, R24

R5, R6, R7, R8, R9, R10, R11, R12, R13

R1, R3, R4, R5, R6, R7, R22, R23

R1, R3, R4, R5, R11, R20, R21, R24

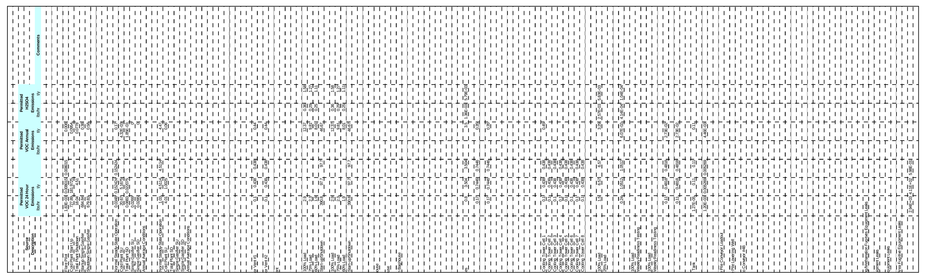
R1, R3-R11, R14-R23, R25-R33

Percentag of WS > 12mph	Material Handling PM10 Emissions Factor (lb/ton)	Area of Conveyor sq. ft.	Acrage acres	PM10 Emissions Factor (lb/da/acre)	Annual PM10 Emissions Factor (lb/da/acre)	Transfer Point Derivation PM 2.5 Emissions Factor (lb/ton)	Biomass Fuel (tons/day)	Throughput (tons/hr)
						0.000184323		2000
						0.000184323		2000
						0.000184323		710
5	26.66	423,582	9.724105	1.208643	1.2086433	0.000184323		2000

Number of Drops	Control Efficiency	Transfer Point Derivation PM2.5 Emissions (lb/hr)		Transfer Point Derivation PM2.5 Emissions (g/s)	Wind Erosion PM2.5 Emissions (lb/hr)	PM2.5 Emissions (g/s)
1	0.5	0.184323229	0.807335742	0.023224727	0	0
1	0.5	0.184323229	0.807335742	0.023224727	0	0
1	0.5	0.065434746	0.286604188	0.008244778		
1	0.5	0.184323229			2.45E-01	0.030852
				0.054694232		

Facility
Point Sources
PM-2.5 (PM10)
EPA Spreadsheet

Source Name	Source Group	Stack Height (ft)	Stack Diameter (ft)	Stack Flow Rate (acfm)	Stack Velocity (m/s)	Stack Temperature (F)	Stack Temperature (K)
Combustion Turbines							
Natural Gas Fired							
Turbine		60.00	14.00			1004.0	540.0
Cold Start Mode							
Cold Start Mode							
Cold Start Mode							
Warm Start Mode							
Warm Start Mode							
Combustion Turbines							
Natural Gas Fired							
Turbine	Turbine Fired Natural Gas	60.00	14.00			1004.0	540.0
Cold Start		60.00	14.00	1.E+06	1.E+06	1004.0	540.0
Cold Start		60.00	14.00	1.E+06	1.E+06	1004.0	540.0
Cold Start		60.00	14.00	1.E+06	1.E+06	1004.0	540.0
Warm Start		60.00	14.00	1.E+06	1.E+06	1004.0	540.0
Warm Start		60.00	14.00	1.E+06	1.E+06	1004.0	540.0
Cold Start Mode							
Natural Gas Fired							
Turbine							
Cold Start							
Cold Start							
Cold Start							
Warm Start							
Warm Start							
Warm



Taylorville Energy Center													
08-08-2011													
		Model Source		**Vertical**	**Release**	**Exit**		**Vertical**	**Release**	**Exit**		**Sigma**	**Sigma**
		Description	**Comments**	**Dimension**	**Height**	**Dimensions**		**Dimension**	**Height**	**Dimensions**		**Y**	**Z**
IEPA's Caluclations				(feet)	(feet)	Length (feet)	Width (feet)	(meters)	(meters)	Length (m)	Width (m)		
Volume Sources										or Diameter			
	Dispersion for all roads			24		50	0	7.3152	3.6576	2.22967296		2.785970456	5.581395349
		Model Source		**Vertical**	**Release**	**Exit**		**Vertical**	**Release**	**Exit**		**Sigma**	**Sigma**
		Description	**Comments**	**Dimension**	**Height**	**Dimensions**		**Dimension**	**Height**	**Dimensions**		**Y**	**Z**
Consultant's Calculations				(feet)	(feet)	Length (feet)	Width (feet)	(meters)	(meters)	Length (m)	Width (m)		
Volume Sources										or Diameter			
	Dispersion for all roads			23.9768		49.68134	0	7.31	3.655	15.14675		14.09	3.4

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20
ROAD 1	X	X																		
ROAD 2					X	X	X	X	X	X	X	X	X							
ROAD 3	X		X	X	X						X									X
ROAD 4					X	X	X	X	X	X	X	X	X							
ROAD 5	X		X	X	X	X	X													
ROAD 6	X		X	X	X						X									X
ROAD 7	X		X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				

Roadways

Paved Roads

PM10	Particulate Multiplier k	oad Surfac Silt Loading sL (g/m2)	Average Vehicle Weight W (tons)	Segment Length (miles)	Barnshed Clay Truck Trips (trucks/yr)	Henry Clay Truck Trips (trucks/yr)
Paved Road						
A	0.016	0.5	27.5	0.051	3285	3285
B	0.016	0.5	27.5	0.081	0	0
C	0.016	0.5	27.5	0.12	0	0
D	0.016	0.5	27.5	0.035	0	0
E	0.016	0.5	27.5	0.019	0	0
F	0.016	0.5	27.5	0.181	0	0
G	0.016	0.5	27.5	0.394	0	0
H	0.016	0.5	27.5	0.012	0	0
I	0.016	0.5	27.5	0.081	0	0
J	0.016	0.5	27.5	0.037	0	0
K	0.016	0.5	27.5	0.116	0	0
L	0.016	0.5	27.5	0.009	0	0
M	0.016	0.5	27.5	0.051	0	0
N	0.016	0.5	27.5	0.065	0	0
O	0.016	0.5	27.5	0.042	0	0
P	0.016	0.5	27.5	0.074	0	0
Q	0.016	0.5	27.5	0.046	0	0
R	0.016	0.5	27.5	0.093	0	0
S	0.016	0.5	27.5	0.046	0	0
T	0.016	0.5	27.5	0.016	0	0
U	0.016	0.5	27.5	0.023	0	0
V	0.016	0.5	27.5	0.036	3285	3285
W	0.016	0.5	27.5	0.028	3285	3285
X	0.016	0.5	27.5	0.028	3285	3285

Roadways

Paved Roads

PM2.5	Particulate Multiplier k	oad Surfac Silt Loading sL (g/m2)	Average Vehicle Weight W (tons)	Segment Length (miles)	Barnshed Clay Truck Trips (trucks/yr)	Henry Clay Truck Trips (trucks/yr)
Roadways						
Paved Roa	0.016	5	25	172	14	
Paved Road						
A	0.0025	0.5	27.5	0.051	3285	3285
B	0.0025	0.5	27.5	0.081	0	0
C	0.0025	0.5	27.5	0.12	0	0

D	0.0025	0.5	27.5	0.035	0	0
E	0.0025	0.5	27.5	0.019	0	0
F	0.0025	0.5	27.5	0.181	0	0
G	0.0025	0.5	27.5	0.394	0	0
H	0.0025	0.5	27.5	0.012	0	0
I	0.0025	0.5	27.5	0.081	0	0
J	0.0025	0.5	27.5	0.037	0	0
K	0.0025	0.5	27.5	0.116	0	0
L	0.0025	0.5	27.5	0.009	0	0
M	0.0025	0.5	27.5	0.051	0	0
N	0.0025	0.5	27.5	0.065	0	0
O	0.0025	0.5	27.5	0.042	0	0
P	0.0025	0.5	27.5	0.074	0	0
Q	0.0025	0.5	27.5	0.046	0	0
R	0.0025	0.5	27.5	0.093	0	0
S	0.0025	0.5	27.5	0.046	0	0
T	0.0025	0.5	27.5	0.016	0	0
U	0.0025	0.5	27.5	0.023	0	0
V	0.0025	0.5	27.5	0.036	3285	3285
W	0.0025	0.5	27.5	0.028	3285	3285
X	0.0025	0.5	27.5	0.028	3285	3285

Coal Truck Trips (trucks/yr)	Limestone/Lime Sorbent/Aqueous monia Rea Truck Trips (trucks/yr)	Gypsum Truck Trips (trucks/yr)	ACBF Slag Truck Trips (trucks/yr)	Cement Loadout-1 Truck Trips (trucks/yr)	Cement Loadout-1 Truck Trips (trucks/yr)	Total Truck Trips (trucks/yr)	Total VMT per Hour (VMT/hr)	Correction Factor C	Emission Factor (lb/VMT)
10950	26280	4000	4000	4000	21900	77700	0.452363	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.556459	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.824384	0.00047	0.179873
0	0	0	0	0	0	0	0	0.00047	0.179873
0	0	0	0	0	0	0	0	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	1.243445	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	2.706726	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.082438	0.00047	0.179873
0	0	0	0		0	0	0	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.254185	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.796904	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.061829	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.350363	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.446541	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.288534	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.50837	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.316014	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.638897	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.316014	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.109918	0.00047	0.179873
0	26280	4000	4000	4000	21900	60180	0.158007	0.00047	0.179873
10950	0	0	0	0	0	17520	0.072	0.00047	0.179873
10950	0	0	0	0	0	17520	0.056	0.00047	0.179873
10950	0	0	0	0	0	17520	0.056	0.00047	0.179873

Coal Truck Trips (trucks/yr)	Limestone/Lime Sorbent/Aqueous monia Rea Truck Trips (trucks/yr)	Gypsum Truck Trips (trucks/yr)	ACBF Slag Truck Trips (trucks/yr)	Cement Loadout-1 Truck Trips (trucks/yr)	Cement Loadout-1 Truck Trips (trucks/yr)	Total Truck Trips (trucks/yr)	Total VMT per Hour (VMT/hr)	Correction Factor C	Emission Factor (lb/VMT)
							0.456061	0.00047	0.697777
10950	26280	4000	4000	4000	21900	77700	0.452363	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.556459	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.824384	0.00047	0.027709

0	0	0	0	0	0	0	0	0.00047	0.027709
0	0	0	0	0	0	0	0	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	1.243445	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	2.706726	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.082438	0.00047	0.027709
0	0	0	0		0	0	0	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.254185	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.796904	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.061829	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.350363	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.446541	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.288534	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.50837	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.316014	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.638897	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.316014	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.109918	0.00047	0.027709
0	26280	4000	4000	4000	21900	60180	0.158007	0.00047	0.027709
10950	0	0	0	0	0	17520	0.072	0.00047	0.027709
10950	0	0	0	0	0	17520	0.056	0.00047	0.027709
10950	0	0	0	0	0	17520	0.056	0.00047	0.027709

Total VMT Speed (mph)	Emission Rate (lb/hr)	Control	Emission Rate (lb/hr)	Emission Rate g/s	Consultants Emission Rate g/s	
	0.081368	0.9	0.008137	0.001025		0.95
	0.100092	0.9	0.010009	0.001261		0.95
	0.148284	0.9	0.014828	0.001868		0.95
	0	0.9	0	0		0.95
	0	0.9	0	0		0.95
	0.223662	0.9	0.022366	0.002818		0.95
	0.486866	0.9	0.048687	0.006135		0.95
	0.014828	0.9	0.001483	0.000187		0.95
	0	0.9	0	0		0.95
	0.045721	0.9	0.004572	0.000576		0.95
	0.143341	0.9	0.014334	0.001806		0.95
	0.011121	0.9	0.001112	0.00014		0.95
	0.063021	0.9	0.006302	0.000794		0.95
	0.08032	0.9	0.008032	0.001012		0.95
	0.051899	0.9	0.00519	0.000654		0.95
	0.091442	0.9	0.009144	0.001152		0.95
	0.056842	0.9	0.005684	0.000716		0.95
	0.11492	0.9	0.011492	0.001448		0.95
	0.056842	0.9	0.005684	0.000716		0.95
	0.019771	0.9	0.001977	0.000249		0.95
	0.028421	0.9	0.002842	0.000358		0.95
	0.012951	0.9	0.001295	0.000163		0.95
	0.010073	0.9	0.001007	0.000127		0.95
	0.010073	0.9	0.001007	0.000127		0.95
	1.851858		0.185186	0.023333		

Total VMT Speed (mph)	Emission Rate (lb/hr)	Control	Emission Rate (lb/hr)	Emission Rate g/s	Consultants Emission Rate g/s	
	0.318229	0.75	0.079557	0.010024		
	0.012534	0.9	0.001253	0.000158		0.95
	0.015419	0.9	0.001542	0.000194		0.95
	0.022842	0.9	0.002284	0.000288		0.95

0	0.9	0	0	0.95
0	0.9	0	0	0.95
0.034454	0.9	0.003445	0.000434	0.95
0.074999	0.9	0.0075	0.000945	0.95
0.002284	0.9	0.000228	2.88E-05	0.95
0	0.9	0	0	0.95
0.007043	0.9	0.000704	8.87E-05	0.95
0.022081	0.9	0.002208	0.000278	0.95
0.001713	0.9	0.000171	2.16E-05	0.95
0.009708	0.9	0.000971	0.000122	0.95
0.012373	0.9	0.001237	0.000156	0.95
0.007995	0.9	0.000799	0.000101	0.95
0.014086	0.9	0.001409	0.000177	0.95
0.008756	0.9	0.000876	0.00011	0.95
0.017703	0.9	0.00177	0.000223	0.95
0.008756	0.9	0.000876	0.00011	0.95
0.003046	0.9	0.000305	3.84E-05	0.95
0.004378	0.9	0.000438	5.52E-05	0.95
0.001995	0.9	0.0002	2.51E-05	0.95
0.001552	0.9	0.000155	1.96E-05	0.95
0.001552	0.9	0.000155	1.96E-05	0.95
0.28527		0.028527	0.003594	

PM2.5 Particulate Multiplier k	oad Surfac Silt Loadin sL (g/m2)	Average Vehicle Weight W (tons)

Tenska
Plant Source#3
PM-10 (PM)

PM10 & PM2.5 Scenario	Source Name	Source Description	Release Point	Model Source Scenario Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Contributors by Stack																																												
Gasification Block																																												
Flare Emissions																																												
	Flare		EP1	FLARN0	X	X	X	X	X	X																																		
				FLARS0							X	X	X	X	X	X																												
				FLARS													X	X	X	X	X	X																						
				FLARSGU																			X	X	X	X	X	X																
				FLARSGD																									X	X	X	X	X	X										
Sulfur Recovery Emission Units																																												
	SRU Thermal Oxidizer	Normal Steady-State Operation	EP2	SRUN0	X	X	X	X	X	X																																		
		Cold Plant SU		SRUSU							X	X	X	X	X	X																												
		Cold Plant SD		SRUSD													X	X	X	X	X	X																						
		Train Plant SD		SRUSD																			X	X	X	X	X	X																
		Single Gasifier SU		SRUSGSU																									X	X	X	X	X	X										
		Single Gasifier SD		SRUSGSD																															X	X	X	X	X	X				
		Annual Average Conditions		SRUAN																																					X	X	X	X
Acid Gas Removal Unit																																												
	AGR Unit CO2 Vent	Normal Steady-State Operation	EP3	AGRN0	X	X	X	X	X	X																																		
		Cold Plant SU		AGRSU							X	X	X	X	X	X																												
		Cold Plant SD		AGRSD													X	X	X	X	X	X																						
		Single Gasifier SU		AGRSGSU																			X	X	X	X	X	X																
		Single Gasifier SD		AGRSGSD																									X	X	X	X	X	X										
		Annual Average Conditions		AGRAN																															X	X	X	X	X	X				
Air Separator Unit																																												
	ASU Oil Mist Exp Vent #1		EP5	ASUOME1	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	ASU Oil Mist Exp Vent #2		EP6	ASUOME2	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	ASU Oil Mist Exp Vent #3		EP8	ASUOME3	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	ASU Oil Mist Exp Vent #4		EP7	ASUOME4	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
Sour Water Tankage																																												
	Water Treatment Deaerator Vent #1		EP9	WTPD1																																								
											X	X	X	X	X	X																												
	Water Treatment Deaerator Vent #2		EP9	WTPD2																																								
											X	X	X	X	X	X																												
	Water Treatment Crystallizer Vent		EP10	WTPC0																																								
Power Block																																												
	Combined Cycle Combustion Turbine #1	100% Load	EP11	CT1N0G1	X			X																																				
		75% Load		CT1N0G2							X			X																														
		50% Load		CT1N0G3		X			X								X			X																								
		Start-up/Shutdown		CT1SUSD								X	X	X	X	X																												
	Combined Cycle Combustion Turbine #2	100% Load	EP12	CT2N0G1				X																																				
		75% Load		CT2N0G2							X			X																														
		50% Load		CT2N0G3		X			X								X			X																								
		Start-up/Shutdown		CT2SUSD								X	X	X	X	X																												
Feedstock and Bulk Material Handling, Storage, and Loadout Operations																																												
	Truck Unloading Building Baghouse		EP13	TUBBH	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Rail Unloading Building Baghouse		EP14	RUBBH	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Active Storage Dome Ventilation Baghouse		EP15	DVBH	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Inactive Baghouse		EP16	IBH	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Engine Tower Baghouse		EP17	ETBH	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Coal Grinding Feed Baghouse		EP18	CGFBH	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Raw Coal Silo Vent		EP19	RCSVC	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Coal Mill & Drying Baghouse		EP20	RCMVC	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Spalled Coal Silo Vent D		EP21	RCMVD	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Spalled Coal Silo Vent E		EP22	RCMVE	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Pet Coke Silo Vent		EP23	PCVC	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
Ancillary Equipment																																												
	Multi-Cell Mechanical Draft Cooling Tower	Cooling Tower Cell 1	EP27	CT1	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
		Cooling Tower Cell 2		CT2	X	X	X	X	X	X																																		
		Cooling Tower Cell 3		CT3	X	X	X	X	X	X																																		
		Cooling Tower Cell 4		CT4	X	X	X	X	X	X																																		
		Cooling Tower Cell 5		CT5	X	X	X	X	X	X																																		
		Cooling Tower Cell 6		CT6	X	X	X	X	X	X																																		
		Cooling Tower Cell 7		CT7	X	X	X	X	X	X																																		
		Cooling Tower Cell 8		CT8	X	X	X	X	X	X																																		
	Ancillary Boiler	100% Load	EP28	AUXBL100							X	X	X	X	X	X																												
		25% Load		AUXBL25	X	X	X	X	X	X																																		
	Hydrogen Storage Dome		EP29	SDHEAT							X	X	X	X	X	X																												
					X	X	X	X	X	X																																		
	Emergency Generator #1	100% Load	EP30	EG1-100																																								
		Weekly Readiness Testing		EG1WEEK	X	X	X	X	X	X																																		
	Emergency Generator #2	100% Load	EP31	EG2-100																																								
		Weekly Readiness Testing		EG2WEEK	X	X	X	X	X	X																																		
	Fire Pump Engine #1		EP32																																									
	Fire Pump Engine #2		EP33																																									
Storage Tanks																																												
	Internal Floating Roof Methanol Tank		EP34																																									
	Diesel Fuel Tank		EP35																																									
Fugitives																																												
Sour Gas Tankage	Active Storage Dome Inactive Pile Conveyor Leaks		EP36		X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Handout Conveyor #1 to Inactive Pile Covering Well		EP37		X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Inactive Pile Chain Reclaimer to Conveyor #48		EP38		X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
Sulfur Sales	Inactive Coal Pile		EP39		X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Temporary Slag Bag		EP40		X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Slag Landfill		EP41		X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
Paved Haul Road	Coal Deliveries		EP42																																									
	Heating Slag Dump to Landfill		EP43																																									
	Heating Liquid Sulfur Off-site		EP44																																									
	Heating Filter Cake Off-site		EP45																																									
	Heating ZnO Cake Off-site		EP46																																									
	Methanol Deliveries		EP47																																									
	Miscellaneous Deliveries		EP48																																									
Fugitive Sources	Gasification Storage Conditioning Mechanical Fugitive Equipment Leaks		EP49																																									
	Acid Gas Removal Fugitive Equipment Leaks		EP50																																									
	Sulfur Recovery Unit Fugitive Equipment Leaks		EP51																																									
	Miscellaneous Minor Process Area Fugitive Equipment Leaks		EP52																																									
				EP1	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
				EP2	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												

SO2 Scenario	Source Name	Source Description	Release Point	Model Source Scenario Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Contributors by Stack																																												
Gasification Block																																												
Flare Emissions																																												
	Flare		EP1	FLARN0	X	X	X	X	X	X																																		
				FLARSU							X	X	X	X	X	X																												
				FLARSD													X	X	X	X	X	X																						
				FLARSGSU																			X	X	X	X	X	X																
				FLARSGSD																									X	X	X	X	X	X										
Sulfur Recovery Emission Units																																												
	SRU Thermal Oxidizer	Normal Steady-State Operation	EP2	SRUN0	X																																							
		Cold Plant SU		SRUSU							X	X	X	X	X	X																												
		Cold Plant SD		SRUSD													X	X	X	X	X	X																						
		Single Gasifier SU		SRUSGSU																			X	X	X	X	X	X																
		Single Gasifier SD		SRUSGSD																									X	X	X	X	X	X										
		Annual Average Conditions		SRUAN																															X	X	X	X	X	X				
Acid Gas Removal Unit																																												
	AGR Unit CO2 Vent	Normal Steady-State Operation	EP3	AGRN0	X	X	X	X	X	X																																		
		Cold Plant SU		AGRSU							X	X	X	X	X	X																												
		Total Plant SD		AGRSD													X	X	X	X	X	X																						
		Single Gasifier SU		AGRSGSU																			X	X	X	X	X	X																
		Single Gasifier SD		AGRSGSD																									X	X	X	X	X	X										
		Annual Average Conditions		AGRAN																															X	X	X	X	X	X				
Air Separator Unit																																												
	ASU Oil Mist Fan Vent #1		EP4	ASUOMF1																																								
					X	X	X	X	X	X																																		
	ASU Oil Mist Fan Vent #2		EP5	ASUOMF2																																								
					X	X	X	X	X	X																																		
	ASU Oil Mist Exp Vent #3		EP6	ASUOME3																																								
					X	X	X	X	X	X																																		
	ASU Oil Mist Exp Vent #4		EP7	ASUOME4																																								
					X	X	X	X	X	X																																		
Sour Water Tankage																																												
	Water Treatment Deaerator Vent #1		EP8	WTPD1																																								
					X	X	X	X	X	X																																		
	Water Treatment Deaerator Vent #2		EP8	WTPD2																																								
					X	X	X	X	X	X																																		
	Water Treatment Crystallizer Vent		EP10	WTPC0																																								
Power Block																																												
	Combined Cycle Combustion Turbine #1	100% Load	EP11	CT1N0G1	X			X																																				
		75% Load		CT1N0G2							X			X																														
		50% Load		CT1N0G3		X			X								X			X																								
		Start-up/Shutdown		CT1SUSD								X	X	X	X	X																												
	Combined Cycle Combustion Turbine #2	100% Load	EP12	CT2N0G1				X																																				
		75% Load		CT2N0G2							X			X																														
		50% Load		CT2N0G3		X			X								X			X																								
		Start-up/Shutdown		CT2SUSD								X	X	X	X	X																												
Feedstock and Bulk Material Handling, Storage, and Loadout Operations																																												
	Truck Unloading Building Baghouse		EP13	TUBBH	X	X	X	X	X	X																																		
											X	X	X	X	X	X																												
	Rail Unloading Building Baghouse		EP14	RUBBH	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Active Storage Dome Ventilation Baghouse		EP15	DVBH	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Inactive Baghouse		EP16	IBH	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Engine Tower Baghouse		EP17	ETBH	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Coal Grinding Feed Baghouse		EP18	CGFBH	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Raw Coal Silo Vent #1		EP19	RCSVC	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Raw Coal Silo Vent #2		EP19	RCMVC	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Coal Mill & Drying Baghouse		EP20	RCMVD	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Spalled Coal Silo Vent D		EP21	RCMVD	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Spalled Coal Silo Vent E		EP22	RCMVE	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Pet Coke Silo Vent		EP23	PCVC	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
Ancillary Equipment																																												
	Multi-Cell Mechanical Draft Cooling Tower	Cooling Tower Cell 1	EP27	CT1	X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
		Cooling Tower Cell 2		CT2	X	X	X	X	X	X																																		
		Cooling Tower Cell 3		CT3	X	X	X	X	X	X																																		
		Cooling Tower Cell 4		CT4	X	X	X	X	X	X																																		
		Cooling Tower Cell 5		CT5	X	X	X	X	X	X																																		
		Cooling Tower Cell 6		CT6	X	X	X	X	X	X																																		
		Cooling Tower Cell 7		CT7	X	X	X	X	X	X																																		
		Cooling Tower Cell 8		CT8	X	X	X	X	X	X																																		
	Ancillary Boiler	100% Load	EP28	AUXBL100							X	X	X	X	X	X																												
		25% Load		AUXBL25	X	X	X	X	X	X																																		
	Hydrogen Storage Dome		EP29	SDHEAT							X	X	X	X	X	X																												
					X	X	X	X	X	X																																		
	Emergency Generator #1	100% Load	EP30	EG1-100																																								
		Weekly Readiness Testing		EG1WEEK	X	X	X	X	X	X																																		
	Emergency Generator #2	100% Load	EP31	EG2-100																																								
		Weekly Readiness Testing		EG2WEEK	X	X	X	X	X	X																																		
	Fire Pump Engine #1		EP32																																									
	Fire Pump Engine #2		EP33																																									
Storage Tanks																																												
	Internal Floating Roof Methanol Tank		EP34																																									
	Diesel Fuel Tank		EP35																																									
Fugitives																																												
Sour Gas Tankage	Active Storage Dome Inactive Pile Conveyor Leaks		EP36		X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Handout Conveyor #1 to Inactive Pile Covering Well		EP37		X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Inactive Pile Chain Reclaimer to Conveyor #48		EP38		X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
Sulfur Sales	Inactive Coal Pile		EP39		X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		
	Temporary Slag Bag		EP40		X	X	X	X	X	X																																		
					X	X	X	X	X	X																																		

Source Name	Source Description	Release Point	Model Source Identifier Description	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Gasifier Coal Bunker D		EP2C	GCBVD																																																					
Gasifier Coal Bunker D		EP2C	GCBVD																																																					
Off-Spec Coal Silo Vent		EP2d	OFFCV																																																					
Lime Ash Silo Vent		EP2E	LAsV																																																					
Soda Ash Silo Vent		EP2f	SAsV																																																					
Ancillary Equipment																																																								
Multi-cell Mechanical Draft Cooling Tower	Cooling Tower Cell 1	EP27	CT1																																																					
	Cooling Tower Cell 2		CT2																																																					
	Cooling Tower Cell 3		CT3																																																					
	Cooling Tower Cell 4		CT4																																																					
	Cooling Tower Cell 5		CT5																																																					
	Cooling Tower Cell 6		CT6																																																					
	Cooling Tower Cell 7		CT7																																																					
	Cooling Tower Cell 8		CT8																																																					
Auxiliary Boiler	100% Load	EP28	AUXBL100	X		X	X				X	X	X	X				X	X	X	X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X				
	25% Load		AUXBL25					X	X	X	X				X	X	X	X				X	X	X	X				X	X	X	X				X	X	X	X				X	X	X	X				X	X	X	X			
Mechanical Startup Heater		EP29	SUHEAT			X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X			X	X	X	X			X	X	X	X			X	X	X	X			X	X	X	X			X	X	X	X
Emergency Generator D	100% Load	EP30	EGD100																																																					
	Weekly Readiness Testing		EGDWEEK																																																					
Emergency Generator H2	100% Load	EP31	EGH100																																																					
	Weekly Readiness Testing		EGHWEEK																																																					
Fire Pump Engine #1		EP32																																																						
Fire Pump Engine #2		EP33																																																						
Storage Tanks																																																								
Internal Floating Roof Methanol Tank		EP34																																																						
Diesel Fuel Tank		EP35																																																						
Fugitives																																																								
Material Transfer	Active Storage Dome on Inactive Pile Conveyor Loading	EP1																																																						
	Stacout Conveyor #3 to Inactive Pile Covering Well	EP2																																																						
	Inactive Pile Chain Reclaimer to Conveyor #48	EP3																																																						
Storage Pile	Inactive Coal Pile	EP4																																																						
	Temporary Slag Pile	EP5																																																						
	Slag Landfill	EP6																																																						
Paved Haul Road	Coal Deliveries	ROAD1																																																						
	Hauling Slag Dust to Landfill	ROAD2																																																						
	Hauling Liquid Sulfur Off-site	ROAD3																																																						
	Hauling Filter Cake Off-site	ROAD4																																																						
	Hauling SLG Solids Off-site	ROAD5																																																						
	Methanol Deliveries	ROAD6																																																						
	Miscellaneous Deliveries	ROAD7																																																						
Fugitive Emissions	Fugitive Emissions Component/Equipment Leaks Equipment Leaks	EG1																																																						
	Acid Gas Removal Fugitive Equipment Leaks	EG2																																																						
	Sulfur Recovery Unit Fugitive Equipment Leaks	EG3																																																						
	Miscellaneous Minor Process Area Fugitive Equipment Leaks	EG4																																																						
			FP1	X		X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X		X	X	X		X	X	X		X	X	X		X	X	X		X	X
			FP2	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Combustion Sources																																																								
Gasification Block																																																								
Gas Heaters																																																								
Flare		EP8C	FLARE1	X		X	X	X	X	X	X																																													
			FLARE2									X	X	X	X	X	X	X																																							
			FLARE3																X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			FLARE4																																																						
			FLARE5																																																						
Sulfur Recovery Emission Units																																																								
SRU Thermal Oxidizer	Normal Steady-State Operation	EP9	SRUNO	X		X	X	X	X	X	X																																													
	Cold Plant SU		SRUSU									X	X	X	X	X	X	X																																							
	Total Plant SD		SRUSD																X	X	X	X	X	X	X																															
	Single Gasifier SU		SRUSGSU																							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Single Gasifier SD		SRUSGSD																																																					
	Annual Average Conditions		SRUAN																																																					
Acid Gas Removal Unit																																																								
AGR Unit CO2 Vent	Normal Steady-State Operation	EP8C	AGRNO																																																					
	Cold Plant SU		AGRSU																																																					
	Total Plant SD		AGRSD																																																					
	Single Gasifier SU		AGRSGSU																																																					
	Single Gasifier SD		AGRSGSD																																																					
	Annual Average Conditions		AGRAN																																																					
Air Separator Unit																																																								
ASU Oil Mist Fan Vent #1		EP3	ASUOMF1																																																					
ASU Oil Mist Fan Vent #2		EP3	ASUOMF2																																																					
ASU Oil Mist Fan Vent #3		EP3	ASUOMF3																																																					
ASU Oil Mist Fan Vent #4		EP3	ASUOMF4																																																					
Sour Gas Flares																																																								
Water Treatment Encapsulator Vent #1		EP8C	WTFS-D1																																																					
Water Treatment Encapsulator Vent #2		EP8C	WTFS-D2																																																					
Water Treatment Encapsulator Vent #3		EP8C	WTFS-D3																																																					
Water Treatment Encapsulator Vent		EP8D	WTFS-D																																																					
Power Block																																																								
Combined Cycle Combustion Turbine #1	100% Load	EP11	CT1NO01	X			X		X	X			X	X				X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X	
	75% Load		CT1NO02		X	X		X			X	X			X	X	X		X	X	X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X			
	50% Load		CT1NO03				X						X	X				X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X	
	Start-up/Shutdown		CT1SUSD																																																					
Combined Cycle Combustion Turbine #2	100% Load	EP12	CT2NO01	X			X		X	X			X	X				X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X	
	75% Load		CT2NO02		X	X		X			X	X			X	X	X		X	X	X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X			
	50% Load		CT2NO03				X						X	X				X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X	
	Start-up/Shutdown		CT2SUSD																																																					
Feedstock and Bulk Material Handling, Storage, and Loadout Operations																																																								
Rock Unloading Building Baghouse		EP14	RUBBH																																																					
Ash Unloading Building Baghouse		EP14	AUBBH																																																					
Ashes Storage Dome Ventilation Baghouse		EP15	SVBH																																																					
Ashes Baghouse		EP15	SBH																																																					
Crushed Coal Baghouse		EP17	CCBH																																																					
Coal Crushing Feed Baghouse		EP18	CCFBH																																																					
Raw Coal Silo Vent #1		EP19	RCSV1																																																					
Raw Coal Silo Vent #2		EP19	RCSV2																																																					
Coal Milling & Drying Baghouses		EP21	CMDBH	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Gasified Coal Bunker #1		EP2C	GCBV1																																																					
Gasified Coal Bunker #3		EP2C	GCBV3																																																					
Off-Spec Coal Silo Vent		EP2d	OFFCV																																																					
Lime Ash Silo Vent		EP2E	LAsV																																																					
Soda Ash Silo Vent		EP2f	SAsV																																																					
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	Cooling Tower Cell 7		CT7																																																					
	Cooling Tower Cell 8		CT8																																																					
Auxiliary Boiler	100% Load	EP28	AUXBL100	X		X	X	X			X	X	X	X				X	X	X	X				X	X	X				X	X	X				X	X	X				X	X	X				X	X	X				
	25% Load		AUXBL25					X	X	X	X				X	X	X	X				X	X	X	X				X	X	X	X				X	X	X	X				X	X	X	X				X	X	X	X			
Mechanical Startup Heater		EP29	SUHEAT			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Emergency Generator D	100% Load	EP30	EGD100																																																					
	Weekly Readiness Testing		EGDWEEK	X		X	X				X	X	X																																											
Emergency Generator H2	100% Load	EP31	EGH100																																																					
	Weekly Readiness Testing		EGHWEEK																																																					
Fire Pump Engine #1		EP32																																																						
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Material Transfer	Active Storage Dome on Inactive Pile Conveyor Loading	EP1																																																						
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Storage Pile	Inactive Coal Pile	EP4																																																						
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	Methanol Deliveries	ROAD6																																																						
	Miscellaneous Deliveries	ROAD7																																																						
Fugitive Emissions	Fugitive Emissions Component/Equipment Leaks Equipment Leaks	EG1																																																						
	Acid Gas Removal Fugitive Equipment Leaks	EG2																																																						
	Sulfur Recovery Unit Fugitive Equipment Leaks	EG3																																																						
	Miscellaneous Minor Process Area Fugitive Equipment Leaks	EG4																																																						
			FP1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			FP2	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X